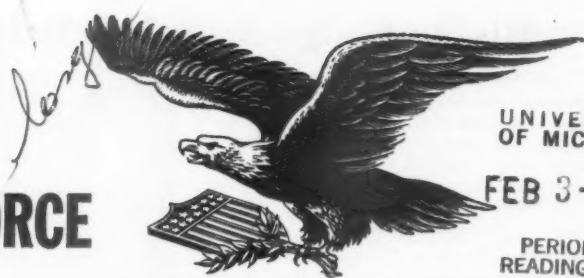


ARMY NAVY AIR FORCE



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SPOKESMAN OF THE SERVICES SINCE 1863

Washington, D. C., 31 January 1959

VOL. XCVI—NO. 22—WHOLE NO. 4984

Published at 1710 Connecticut Ave., N. W., Wash-
ington 9, D. C. Second class postage paid at Wash-
ington, D. C., and at additional mailing offices.

Published weekly, \$10.00 a year to organizations
and civilians; \$7.50 a year to individual members
of U. S. Armed Services.
SINGLE COPY30 CENTS

Proficiency Flight Pay Faces Cuts, Pentagon Set To Act On President's Request

THE number of officers receiving flight pay faces a cutback in fiscal year 1960 which starts 1 July.

President Eisenhower, in the wake of Congressional criticism aimed last year at proficiency flying programs in the Armed Services, has requested Secretary of Defense McElroy to make a new study of the problem "in the interest of improvements and economies."

This study, requested by the White House, is underway at the Pentagon. A special report is also being completed at the Pentagon on the subject of proficiency flying pay in response to a 1958 demand of the House Appropriations Committee.

The Committee warned that it may set legislative restrictions on the number of

—Continued on page 30

The Internal Revenue Service has issued a new all-Service ruling on "sick pay" tax, affecting thousands of retired disabled military people—details Page 25.

AF Reveals Plans For 17,256 Promotions; Slash To Captain; More Eagles And Stars

(Lieutenant Colonel Boosts Set; Airmen Quotas Show Rise, Page 8)

AIR FORCE promotions to all grades through brigadier general are slated for 17,256 officers during the fiscal year that starts in July.

This is 729 less than the total number of promotions planned for the current fiscal year. The entire reduction plus some additional numbers, will come out of promotions to the rank of captain. (Full details, Page 21).

More promotions are slated to the grades of brigadier general, colonel and first lieutenant.

During the current fiscal year, Air Force plans call for the promotion of 38 officers to brigadier general; 62 colonels will be promoted in FY '60 to

—Continued on page 21

Pentagon Seeks More Capeharts

(Capitol Action, Page 30)

The Pentagon has revealed plans to ask Congress for "a substantial number" of new Capehart family housing units in the fiscal '60 military construction program.

The President, in his budget message, said one of the factors which will increase Defense Department operating costs in fiscal 1960 will be "the larger

—Continued on page 30

DECADE OF SPACE MEDICINE

Doors Are Unlocked; But How Will Man Survive In Strange Environment?

BY MAJ. GEN. OTIS O. BENSON, JR., USAF (MC)
Commandant, School of Aviation Medicine, The Air University,
Randolph AFB, Tex.

ON 9 February the School of Aviation Medicine will celebrate the 10th Anniversary of the founding of its Department of Space Medicine, the first of its kind in the world.

In commemoration of this event we have planned a one-day program during which Maj. Gen. Harry Armstrong, founder of the Department; Dr. Hubertus Strughold, its first Chief; and Dr. Heinz Haber, Dr. Fritz Haber, and Dr. Konrad Buettner, the first staff members, have been asked to discuss past accomplishments and to present their predictions of space medicine progress during the next 10 years.

General Armstrong, a far-sighted career flight surgeon, more than 10 years ago recognized that manned rocket flights were an imminent pos-

sibility. He realized something should be done to prepare man for the physical demands involved in such travel.

German aviation medicine specialists during WW II had begun some basic studies on the physiology of space travel. General Armstrong was familiar with this work, and after the war arranged for the employment of some of the German scientists at the School of Aviation Medicine, where he was Commandant. Dr. Heinz Haber, an astrophysicist, arrived at Randolph on 30 January 1947, and Dr. Hubertus Strughold followed on 3 August 1947. Initially Dr. Strughold and Dr. Haber were assigned to the Department of Ophthalmology. However, General Armstrong encouraged them to "dream" about the various

—Continued on page 11

THE CHIEFS SPEAK

Hard on the heels of last week's all-Service special section on the President's military budget for fiscal '60, The Journal this week focuses on the opening Congressional defense posture statements made by all the Service Chiefs.

Highlights from the testimony of General Twining, General Taylor, Admiral Burke, General White, and General Pate before the Senate Armed Services Committee will be found on Pages 1, 2, 28 and 29.



NAVY VISITS ARMY. Lt. Gen. B. M. Bryan, Commanding General, First U.S. Army, presents VAdm. Thomas S. Combs, Commander of the Eastern Sea Frontier, with a copy of the history of Governors Island during Admiral Combs' first visit to the island headquarters.

IRS Tells Rules On Tax Records

Military personnel have been assured they will not have to itemize mileage and per diem allowances for official purposes on Federal income tax returns, unless they wish to claim excess expenses as income tax deductions.

Since these travel allowances may be considered as an accounting to the Gov-

—Continued on page 3

JCS Chairman Assesses Military Posture

(The following statement was made by General Nathan F. Twining, JCS Chairman, before the Senate Armed Services Committee, which has been looking into the Nation's defense posture.)

It is my privilege to appear before you today to present our best estimate of the Sino-Soviet military threat to our Country, together with a review of our capabilities to counter this threat.

I believe that the strength of our Armed Forces today is sufficient to cause the Soviet leaders to realize that an attack upon us would result in unacceptable damage to their homeland.

At the same time, the strength of our

—Continued on page 31

Inter-Service Harmony Faces Forced Rise In Nation's Capital; Muted Plans Are Being Prepared To Unify Music Training

ARMY, Navy, and Marine bandmen at the U. S. Naval School of Music in Washington hope it won't be long before they are joined by students from the nearby Air Force Bandmen School at Bolling AFB. The "unification" action depends on Congressional decision.

Air Force music men say they have no "definite plans" on such a move.

But there are such definite plans at the Naval School of Music, under direction of Lt. Oden L. McMillan, USN. The school trains approximately 440 musicians a year for the Army, Navy, Marine Corps and foreign governments. This annual output will increase to almost 600 yearly as the result of a new Army policy of sending all new Regular Army bandmen to a 20-week course at the school.

Further expansion is keyed to the planned construction of new facilities at the Anacostia Naval Receiving Station, where the Band School is located.

Preliminary plans have been drawn with the view to providing accommodations for Air Force band schooling.

Increased Army participation at the Naval School of Music also may be provided if the new structure is authorized. But first the Pentagon must ask funds for the new school, and then Congress must approve.

At the moment, officials at the Naval School of Music and Pentagon authorities

are declining detailed comment about the plans for the unified music school, but it can be forecast that if a green light is given for new school facilities at Anacostia, this will be on all-Service, across-the-board basis.

First suggested by Fleet Admiral William D. Leahy in 1935, when he was a rear admiral and Chief of the Bureau of Navigation, to improve the quality of bands in the fleet, the school has been training Army bandmen since 1951.

School operations are conducted on a cooperative basis between the Army, Navy, and Marine Corps, with instructors chosen from among Army, Navy and Marine Corps musicians. Army stu-

—Continued on back page

WANT TO LEAD A BAND?

Want to be a commissioned military bandmaster?

If so, your best opportunities lie with the Air Force, which is authorized 28 bandmasters billets for commissioned officers.

The Army, authorized 14 commissioned band officers, has 10 on active duty.

Navy bands have their full authorization of seven commissioned bandmasters. Four commissioned officers have band assignments in the Marine Corps.

The only Service which has commissioned bandmasters as such is the Army.

Under its regulations, the Air Force is forced to classify its bandmasters as administrative officers. Navy commissioned bandmasters must be commissioned as line officers, and continuously maintain their line status.

SAC Colonels Will Be On The Move; One To Europe, Another To Greenland

SIX SAC Colonels will move to new duties during the next few weeks. Col. Ralph W. Stanley, SAC Safety Division Chief, takes command of the 4228th Strategic Wing at Columbus AFB, Miss. Col. William H. Cleveland, currently at Columbus, has been named Director of Operations, Field Representative, Europe.

Coming to SAC Headquarters to take charge of the Safety Division will be Col. Woodrow P. Swancutt, commander of the 376th Bomb Wing, Lockbourne AFB, Ohio.

Col. John T. Compton, Commander of the 4347th Combat Crew Training Group, McConnell AFB, Kans., will depart for Thule to assume command of the 4083d Strategic Wing.

Returning for stateside duty will be Col. Bryson R. Bailey, commander of the 4083d and Col. Robert M. Sheeks, Thule's Director of Operations.

Missile Badge Awarded At Pentagon

Capt. W. D. Baxter, USAF, at right, Assistant for Guided Missiles in the Air Defense Group of the Air Force Director of Research and Development, is shown being congratulated by Col. Thomas D. DeJarnette, his chief, on being the first USAF Headquarters staff officer to receive the new Missile Badge.

At the same time, Captain Baxter also received the Legion of Merit. He will be promoted to major in April. The Legion of Merit recognizes his work on the Joint ARDC-ADC Bomarc Test Force at the Eglin, AFB, Fla., Air Proving Ground Center.



... Badge And Promotion

General White On AF Plans

(The following are excerpts from testimony by General Thomas D. White, Air Force Chief of Staff, before the Senate Armed Services Committee. General White, in the first part of his briefing, discussed specific weapons, then took a broader look at the Air Force military posture now and for the future.)

OUR purpose in the second portion of this presentation is to provide the Committee with information on the Air Force as it exists today, to examine the 1962 forces which will result from the Fiscal Year 1960 Budget request, and to discuss several aspects of our planned forces as we see them in 1965.

Specifically, this part of our presentation will cover the following major items:

First, the Soviet threat as it now exists and is estimated to evolve.

Second, the Air Force tasks as derived from our national objectives and the threat facing us...

The military threat facing us from the Soviet Union has, over a very short period of time, evolved to primarily an intercontinental aircraft threat and a missile threat. The answer to this threat is air power and space power...

But there is a growing tendency to believe that a force which has less than a capability to destroy the strategic elements of Soviet military forces will be adequate to deter the enemy.

As you recall, Air Force officers conceived the philosophy of strategic air power before World War II. This philosophy was applied during World War II by attacks against the source of military power, which, at that time, was contained primarily in the large industrial complexes of Germany and Japan. These attacks were militarily sound and contributed significantly to the defeat of the enemy.

However, since World War II there has been a compression of time in warfare, and a tremendous increase in the power of weapons. But the big difference between the military problem of World War II and the military problem we face today is that now the enemy has in-being long-range military forces designed solely for attacks against the United States. This attack could be made in a matter of hours, as opposed to months of traditional military maneuvers and operations which would have been required by our enemies during World War II.

There are a number of pertinent examples which might be cited to demonstrate the great danger of altering our national strategic concept to have the capability to destroy only the cities and population of the enemy.

The enemy would in short order be aware of this modification in United States concept and capability.

Under such circumstances, the enemy

—Continued on page 9



Supersonic BOMARC, America's longest-range air-defense missile

The Air Force's BOMARC is the most advanced, longest-range defense missile in the nation's arsenal.

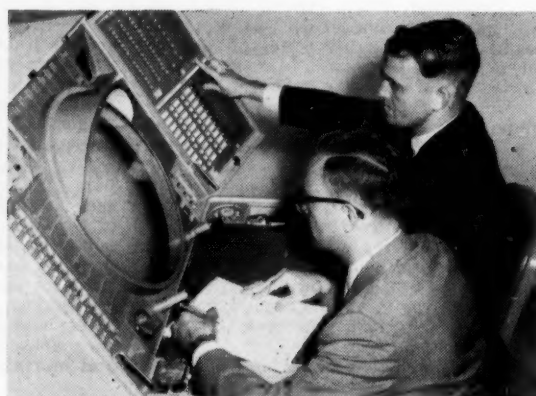
Its range—200 to 250 miles—enables a single BOMARC base to protect an area of more than 200,000 square miles. One result is far fewer bases than would be required by short-range missiles. Another is effective defense, for BOMARCs destroy aerial attackers long before they reach U.S. borders. BOMARC's superior range means that bases can be located on remote, low-cost sites, instead of on expensive densely-populated land adjacent to major cities. In addition, it can be maintained by minimum crews and be fired automatically.

Single BOMARCs can seek out and intercept individual or multiple targets—either aircraft or missiles. They can be fired in rapid-sequence salvos. Armed with a nuclear warhead, a single BOMARC can destroy an entire formation of attackers.

BOMARC has great growth potential. Its range is being extended to more than 400 miles, which will enable one BOMARC base to protect more than 500,000 square miles. BOMARC can be developed to cope with intercontinental ballistic missiles.

The BOMARC system has been proved out in exhaustive tests, and the first base—at Eglin Air Force Base, Florida—is already operational. Other bases are nearing completion. BOMARC, in addition, has been chosen by the Canadian Government as an integral part of its air defense.

BOEING BOMARC



First Pentagon Bills Hit House Hopper

EIGHT top Defense Department proposals—including the Reserve contract plan—have been introduced in the House. They are the first Pentagon measures, with the exception of the draft extension bill, to be dropped in the House hopper. Complete details on each of the measures were reported in 17 January issue of THE JOURNAL.

The revised term contract plan for Reserve officers, due to cost \$27.6 million during the next five years, was introduced by Representative L. Mendel Rivers (D-SC), new chairman of the House Armed Services Subcommittee handling Reserve and National Guard legislation. The proposal is HR 3370.

Legislation to change the Uniform Code of Military Justice was introduced by Chairman Carl Vinson (D-Ga) of the Armed Services Committee. The number of the bill is HR 3387.

A proposal setting a new peacetime limitation on the authorized number of Marine Corps lieutenant generals was introduced (HR 3323) by Representative Paul J. Kilday (D-Tex), Chairman of the House Armed Services Subcommittee which will handle the legislation.

Congressman Kilday also introduced HR 3325, which establishes a career pattern for Marine Corps officer-lawyers, HR 3324 authorizing six-year extensions and re-extensions of enlistments, and HR 3321 providing WAAC active-service credit for WWII.

Legislation to create an Air Force Cross and Airmen's Medal was introduced (HR 3291) by Representative Carl Durham (D-NC).

Congressman Rivers also introduced HR 3368, which extends the six-month Reserve training program.

Pentagon Secretariat Loses Five Billets; Abolish Army Post, Navy Air Secretary

THE Pentagon officially will lose five assistant "vice presidents" on 6 February. On that date, when the final provisions of the 1958 Defense Department Reorganization Act take effect, five major Pentagon billets will be eliminated.

Few officials will be affected, however.

Most consolidations and transfers were accomplished before the February target date. As a result—and by not filling vacancies created by resignations—the Defense Department will be able to complete the changeover with little fanfare.

In the Army, the post of Assistant Secretary (Civil-Military Affairs) was abolished 22 January. Assistant Secretary Dewey Short, who had held the CMA assignment was named Assistant Secretary for Manpower, Personnel and Reserve Forces. The latter position had been vacated in August when Under Secretary of the Army Hugh M. Milton, II, moved up to the number two spot.

The functions of the CMA office and those of Manpower, Personnel and Reserve Forces are being consolidated. Under the new organization, Franklin L. Orth will be Deputy to Mr. Short for Manpower and Reserve Forces and Edward A. Bacon will be Deputy for Civil Affairs.

Assistant Secretary George H. Roderick (Financial Management) and Assistant Secretary Frank H. Higgins (Logistics) will continue in their current posts.

In the Navy, the office of Assistant Secretary for Air will be abolished on 6 February, concurrently with the resignation of the present incumbent, Garrison Norton.

One other Navy post, Assistant Secretary (Financial Management) currently is vacant. There have been reports that Under Secretary William B. Franke is scheduled to resign soon, with Assistant Secretary Fred A. Bantz (Material) taking the second-ranking civilian post. This would mean that two vacancies will have to be filled. Assistant Secretary Richard Jackson (Manpower, Personnel and Reserve Forces) is expected to continue in his present appointment.

The Air Force had not yet announced as THE JOURNAL went to press which of its four Assistant Secretary positions will be eliminated. Two will be vacated before the 6 February deadline. Assistant Secretary (Manpower, Personnel & Reserve Forces) David S. Smith and Assistant Secretary (Material) Dudley C. Sharp resigned effective 31 January.

Changes within the Office of the Secretary of Defense already have been completed. Two posts (Assistant Secretary Applications Engineering, and Assistant Secretary Research and Development) had been combined into one post (Assistant Secretary, Research and Engineer-



Asst. Sec. Short

ing) prior to passage of the Reorganization Act. This post has now been replaced with the new Defense Department Director of Research and Engineering, who ranks above the Assistant Secretaries of Defense.

Under the Reorganization Act, the Defense Department is authorized only seven Assistant Secretaries in future, as compared with nine under previous law.

Each of the Services will be authorized a Secretary, Under Secretary and three Assistant Secretaries.

Tax Ruling

From first page—

ernment for the money spent, the Internal Revenue Service has ruled, military personnel are required only to check a small box on their income tax returns to indicate they spent the travel payments they received.

If military personnel actually spent more than they received and they wish to claim the excess as an income tax deduction, they will have to itemize all travel payments received and all their expenses on their tax return.

Although the IRS had previously exempted fixed mileage and per diem rates from inclusion under employees' gross income if they did not exceed 125% of the rates authorized in the Standardized Government Travel Regulations for civilians, there had been some doubt at the Pentagon whether the exemption applied to all official travel payments under the military Joint Travel Regulations.

Specifically, it was pointed out that the \$17 daily per diem rate allowed under the Joint Travel Regulations of Geneva, Switzerland, was more than 125% of the Standardized rate of \$12 for civilian employees. Under previous Revenue decisions, JTR payments for Geneva normally would have had to be included under gross income.

To resolve Pentagon doubts, Navy Judge Advocate General RADM. Chester Ward requested the Revenue Service to issue a new decision exempting JTR travel mileage and per diem payments from income tax itemization.

The IRS agreed.

"Accordingly," it said, "members of the Uniformed Services receiving per diem allowances for official travel at rates prescribed in Table 3, Appendix B of the Joint Travel Regulations, are considered as having accounted to the employer for travelling and other business expenses."

Capitol Task Force Gains Strength In \$30 Million Retired Pay Campaign

EIGHTEEN more Senators and Representatives have signed up in the growing campaign to restore the traditional relationship between active duty and military retired pay.

Six Senators joined with Senator Henry Jackson (D-Wash) in sponsoring S.541. This makes a total of 30 Senators—almost one-third of the entire membership—who are on record in favor of increasing retired pay.

Twelve additional House members also have introduced new bills (see Action At The Capitol). This makes a total of 25 in the House who actively favor the remedial legislation.

"Disillusionment" Cited

Senator Clair Engle (D-Calif), co-sponsor of proposals introduced by both Senator Jackson and Senator Barry Goldwater (R-Ariz), said the legislation "would remove the feeling of disillusionment caused both active and retired officers and men" when the 1958 Military Pay Act eliminated the historic relationship between active and retired pay.

Prior to enactment of the 1958 Pay Act, he reminded the Senate, "the general rule was that the pay of retired members of the uniformed services was automatically increased to correspond to that of active duty personnel whenever their pay was increased."

Senator Engle recalled that "Only once in nearly 100 years has the Congress varied even for a short time from this principle." The deviation later was corrected, "thus emphasizing the intent of Congress to adhere to such a principle."

The Senator emphasized that "for many years military personnel have felt every right to rely upon a continuance of this relationship between active duty and retired pay. Career personnel have planned their whole future based upon this consideration. Departure from this cardinal principle constitutes a major step in the direction of destroying the incentive to make a career of the Armed Serv-

ices."

He reminded his colleagues that the Cordiner Committee strongly recommended maintaining the old principle of gearing retired pay to active-duty pay.

He said the cost of providing the pay increase for retired members "would be less than \$30 million for the first year and would steadily decrease and ultimately disappear altogether."

However, regardless of the cost, he said, "we cannot afford to take any other position than to equalize the pay between the older officers and men and the more recently retired ones. This is a very simple proposition involving a matter of justice and equity only. The question of honorable procedure is the sole principle to be considered."

Senator Engle said "the Government should stand by the terms of the law under which these officers and men have been serving and grant them the retired pay agreed upon. We should not break faith with the career personnel who have devoted their lives to the defense of our country."

He said it is his earnest hope that the Senate Armed Services Committee "will give early consideration" to the proposed retirement equalization.

New In The Ranks

The new group of Senators who have joined in support of the proposal are Senators Stuart Symington (D-Mo), Thomas Kuchel (R-Calif), Dennis Chavez (D-NM), Richard Neuberger (D-Ore) Thomas Hennings (D-Mo) and Theodore Green (D-RI).

House Members who have joined in the movement are Representatives Walt Horan (R-Wash), John J. McFall (D-Calif), Thor C. Tollefson (R-Wash), Overton Brooks (D-La), George Huddleston (D-Ala), Harold Johnson (D-Calif), William S. Mailiard (R-Calif), John Foley (D-Md), Jeffery Cohelan (D-Calif), Gordon McDonough (R-Calif), James Roosevelt (D-Calif), and John Shelley (D-Calif).

House Group Charges Congressional Intent Is "Flouted" In Army-Marine Cuts

SECRETARY of Defense Neil H. McElroy will have to answer some tough questions about Army and Marine Corps manpower cuts when he appears before the House Armed Services Committee on 2 February.

Chairman Carl Vinson (D-Ga) served notice this week he plans to ask the Secretary about his "failure" to keep Army strength at the level recommended by Congress. For this fiscal year, Congress appropriated funds to maintain a 900,000-man Army and a 200,000-man Marine Corps. Secretary McElroy, however, presumably on orders from the White House, has told the Services to cut back to 870,000 and 175,000, respectively.

Chairman Vinson said the Secretary's action may "force Congress to take a mandatory position" with respect to the strength of the Services. He said "Congress does not like to see its intent flouted in the manner that has occurred."

Congress, last year, set mandatory "floors" on both the National Guard and Army Reserve strength.

Mr. Vinson's remarks came during Committee hearings on legislation to extend the draft and Dependents Assistance Act. Secretary McElroy will appear before the group on 2 February when he and the Joint Chiefs of Staff brief the Committee on the Nation's current military posture.

Chairman Vinson announced that these briefings, because of their classified nature, will be conducted behind closed doors. He stated, however, that all of the unclassified information presented to the Committee will be released for publication.

The draft hearings were expected to be concluded before the posture briefings begin. Top Pentagon officials told the Committee this week that it is "imperative" that the draft act be extended for an additional four years.

In his opening statement, Chairman Vinson said, "As far as I am concerned, we have no choice but to extend the draft law, the so-called Doctors Draft Law, the Dependents Assistance Act, and the law which suspends the strength ceilings on the size of our Armed Forces." He said these objectives "should be approved unanimously by the Committee."



Chairman Vinson

Ft. Lee Center Gets New Task— Army-Wide Future Logistics Research

THE Army Logistics Management Center at Ft. Lee, Va., has been given the mission of Army-wide logistics research.

The new activity at Ft. Lee is thinking three years hence as it tackles some of the Army's proposed supply-maintenance systems of 1962. This involves consideration of such things as transportation, stock control, supply control, storage and automatic data processing.

The research unit here, established by Lt. Gen. Carter B. Magruder, Deputy CofS for Logistics, has over-

all Army staff responsibility for developing logistics systems.

Although the activity was set up primarily to do research for General Magruder's office, it also will serve the Continental Army Command.

The staff at Lee is a group of specialists in logistics and management, assembled by Col. Bernard S. Waterman, Commandant of the Logistics School.

Heading the group is Col. Howard K. Eggleston, CE, named Deputy Commandant for Logistics Research and Doctrine.



FOR SAFETY. Continental Army Commander, General Bruce C. Clarke (l.) presents a safety progress plaque award to Third U. S. Army Commander, Lt. Gen. Clark L. Ruffner. The award was made during Gen. Clarke's first visit to Third Army Headquarters, Ft. McPherson, Ga. as head of CONARC. The award was based on competition between the continental armies and the Military District of Washington for improvement in safety during fiscal 1958, compared to fiscal 1957.

5 New Colonels

(Other Promotions, Page 27)

The Army in S.O. 18, effective 27 January, has announced the promotion to temporary colonel of three line officers, Lt. Cols. Raymond W. deLancey, CE; Irving R. Mollen, CmlC; and Duane M. Witt, Inf.; and Lt. Cols. Henry B. Fitch and Thomas B. Seay of the Dental Corps.

These promotions extended through Sequence No. 86 on the Army Promotion List and Sequence Number 24 on the Dental Corps List, Circular 624-35, dated 1 October 1958.

Shifts At Lee

Col. Arthur H. Nelson, former Chief of the Eighth Army Management Division in Korea, has succeeded Col. Gustaf A. Engstrom as Commander of the Quartermaster Research and Engineering Field Evaluation Agency, Ft. Lee, Va.

Colonel Engstrom will take up new duties with the Military Assistance Advisory Group to Korea.

Lt. Col. Waldo W. Montgomery is the new Deputy CofS of the Quartermaster Training Command, replacing Lt. Col. Walter F. Diesem, who becomes Post Quartermaster at Lee.

Col. Franklin E. Scott has been reassigned from Quartermaster School Director of Instruction to Commander of the 543d Quartermaster Group. Col. James S. Griffin, former 543d Commander, has been assigned to the Philadelphia Quartermaster Depot.

Army Aviation Notes

Brig. Gen. Ernest F. Easterbrook, shown at the right during a visit to Camp Gary, Tex., where he was greeted by Col. L. F. Schockner, center, and Col. George B. Bennett, left, one of 350 officers currently taking primary flight training there, will take command of the Army Aviation Center, Ft. Rucker, Ala., on 16 February.

General Easterbrook, Director of Army Aviation, succeeds the late Maj. Gen. Bogardus S. Cairns.

As THE JOURNAL went to press, the Army had yet to designate a new Director of Army Aviation.

Maj. B. M. Zeppenfeld, Aviation Officer for the Military District of Washington, has been awarded the Master Army Aviator Wings. He becomes one of only 25 pilots of the 6,000 in the Army to receive this recognition, which requires 15 years' duty as a rated pilot in the Army with more than 3,000 hours flying time, a special instrument rating and current qualification in fixed and rotary wing aircraft.

Col. Ford E. Allcorn also has received Master Aviator wings. They were pinned on by Brig. Gen. William B. Bunker, Commanding General, Army Transportation Supply and Maintenance Command, St. Louis, as shown in the photograph below.

Colonel Allcorn, Director of the command headquarter's Directorate of Field Services recently received his eagle.



... Master Aviator Allcorn



... Flying Soldiers

Seventh Army's air accident rate for 1958 was far below the army-wide average and showed a decline from 1957, despite a rise in the number of command aircraft and an increase in the number of Seventh Army pilots. This report was made 23 January during the Seventh Army Aviation Conference at Vaihingen, Germany, by Capt. Dolman W. Vineyard, Assistant Aviation Safety Officer. He said that the 1958 air accident rate of 38.1 (number of accidents per 100,000 hours of flying time) was a 1.8 drop from the previous year and well below the 1958 Army-wide average of 57.7.

The Army-wide rate per 100,000 flying hours was reported as 10.3 deaths compared with the Seventh Army rate of 4.1.

Col. Raymond Coward, a former FBI agent, and former member of the Judge Advocate General's Board of Review, has reported to the Army Aviation Center as Staff Judge Advocate.

Colonel and Mrs. Coward, the former Phyllis Lee Furr of Concord, N. C., have two children, Raymond Lynn, 7, and Janet Anne, 4.

New Comptroller At Campbell

Lt. Col. Joda L. Robinson is the new Ft. Campbell, Ky., Comptroller, succeeding Col. Cecil R. Hill, USA-Ret.

Colonel Robinson, formerly Assistant Comptroller, is married to the former Miss Olene Hardigree of Winder, Ga. They have four children, James, 12; Lee, 8; Cora Ellen, 6; and Marilyn, 4.

U. S. ARMY ORDERS

Wilber M. Brucker—Secretary of the Army
Hugh M. Milton, II—Under Secretary of the Army
Dewey Short—Assistant Secretary (Manpower & Reserve Forces)
Frank H. Higgins—Assistant Secretary (Logistics)
George H. Roderick—Assistant Secretary (Financial Management)
William H. Martin—Director, Research and Development
General Maxwell D. Taylor—Chief of Staff

GENERAL OFFICERS—

Brig General
Wilson, James K. Jr, USAREUR, to Hq Third USA, Ft McPherson.

INFANTRY—

Colonel
Willoughby, William H, Wash, DC, to Hq US CONARC, Ft Monroe.

—Continued on page 14

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Announcement . . .

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TO ALL MEMBERS OF RECORD WITH INSURANCE CONTRIBUTIONS PAID THROUGH MASTER POLICY YEAR ENDING 31 JAN. 1959

THUS . . . FOR \$12,000 GROUP LIFE INSURANCE THE NET LOW COST FOR THE MASTER POLICY YEAR WAS \$42.00, OR \$3.50 PER MONTH, FOR NON-FLYING OFFICERS AND \$84.00 FOR THE YEAR, OR \$7.00 PER MONTH, FOR FLYING OFFICERS.

REFUND CHECKS WILL BE MAILED TO ELIGIBLE MEMBERS DURING JUNE, 1959



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FILL IN COUPON AND SEND TODAY — GIVE ONE TO A FELLOW OFFICER

Cdr. Ducander, Capitol Counsel, Goes To New Post; Cdr. Slatinshek Successor

Mr. Charles F. Ducander, House Armed Services Committee Counsel, has been named Executive Director and Chief Counsel of the new House Committee on Science and Astronautics.

He will be succeeded by Cdr. Frank Slatinshek, USNR, who has been a legal officer in the Office of Navy Legislative Liaison.

Mr. Ducander, a Naval Reserve Commander, had served with the Armed Services Committee since December 1949, specializing in Reserve and National Guard legislation.

Prior to this, Commander Ducander had been Assistant Chief Attorney of the Veterans' Administration Regional Office in Shreveport, La. During his WW II Naval service he was assigned to Composite Squadron 98 aboard the carrier escort Lunga Point.

Commander Slatinshek, who assumes his new duties 1 February, is a veteran of 12 years' active Naval service.

ice. During WW II, he commanded a group of LCI's attached to the Seventh Fleet in the Southwest Pacific and participated in numerous landings in New Guinea and the Philippines.

Following the War's end, he became a Special Agent for the FBI. Recalled during the Korean crisis, he has been on active duty since 1951.

His assignments have included tours of duty with the Central Intelligence Agency, with the Defense Department Career Incentive Task Force (which was largely responsible for enactment of the Survivor Benefits Act, the Medicare Act, the Augmentation Act and the Doctor's Pay Act), and as acting head of the Bureau of Naval Personnel's Personal Affairs Division.

Originally from Milwaukee, Wisc., Commander Slatinshek and his wife, Mary, reside at 200 No. Galveston St., Arlington, Va. They have one daughter, Mary Catherine, 4½.

RAdm. Lyman Commands Fourth Naval District; Newport Billet For Adm. Long

RAdm. Charles H. Lyman, III, CofS and Aide to the President of the Naval War College, Newport, R. I., becomes Commandant of the Fourth Naval District and Commander Naval Base, Philadelphia in February.

He will be succeeded in April by RAdm. Victor D. Long, Pacific Fleet Mine Force Commander.

RAdm. Charles K. Bergin, Director, Near East, South Asia and African Region, Office of Assistant Secretary of Defense for International Security Affairs,

will relieve Admiral Long in March.

RAdm. Benjamin E. Moore, Commander Carrier Force, Pacific Fleet, takes command in May of Fleet Air, Whidbey, Wash.

RAdm. Bernard A. Clarey, reporting from an interim assignment in the Bureau of Naval Personnel, has shifted to the Office of the Assistant Secretary of Defense for Manpower, Personnel and Reserve. He was picked for two-star rank by the FY '59 selection board.



HANDBOOK HONORED. Assistant Secretary of the Navy Richard Jackson, right, presents the Navy's Certificate of Merit to James C. Fahey of 115 Chestnut Street, Falls Church, Va. The Certificate was awarded to "Ships and Aircraft of the U. S. Fleet," the seventh edition of which has just been published by Mr. Fahey. Mr. Fahey also publishes a series of handbooks on Air Force and Army aircraft.

Marine Corps Offers Post-Graduate Work

The Marine Corps is seeking applications from Regular officers for 12 post-graduate courses offered in the Fiscal Year 1960 Formal Schools Training Program.

Deadline for applications is 1 March. Requests for assignment should be made through local commanding officers and forwarded to the Commandant (Code DFA). Those selected will be notified during March.

Last Conventional Sub Joins Fleet In Summer

The last conventionally-powered submarine will slide down the ways this Summer.

She will be the USS Blueback, building at the Ingalls Shipbuilding Company's yard at Pascagoula, Miss. A sister ship, the USS Bonefish, will precede her commissioning.

The Bonefish is being built by the New York Shipbuilding Corporation at Camden, N. J. She joins the Fleet in May.

Both boats, displacing 1,690 tons, are in the USS Barbel-class.

The prototype Barbel, was placed in commission 17 January at the Portsmouth Naval Shipyard, N. H., with LCDr. Ord Kimzey, jr., in command.

VAdm. Charles B. Momsen, USN-Ret., who spoke at the commissioning ceremony, described the Barbel (SS-580) as a prototype ship "designed with the idea that it can be reproduced rapidly."

The three Barbel-class diesel-battery powered subs are based on the shark-shaped Albacore hull design. The 560-class, however, have plumper hulls than Albacore types.

"VAGABOND" SHUFFLE

Lt. Col. Percy F. Avant, jr., Commanding Officer, VMA-324, MCAS Cherry Point, N. C., has assigned six of his "Vagabond" pilots to new Squadron positions.

Capt. Martin A. Yarnell was named Squadron Adjutant and Capt. George W. Fritsch assumed duty as Assistant S-3.

The following first lieutenants moved into new posts: Mervyn J. Burns, Flight Line Officer; James F. Gurtner, Aviation Safety Officer; Lorenza H. Hill, jr., Assistant S-1; and Alan H. Robinson, Avionics Officer.

U. S. MARINE CORPS ORDERS

Commandant—General Randolph McC. Pate
Assistant Commandant—Lt. Gen. Verne J. McCaul
Chief of Staff—Lt. Gen. Robert E. Hogaboom

LT COLONEL

Treadwell, James P, HqMC, to Bangkok, Thailand.

MAJOR

Beck, Noble L, HqMC, to MCS, Quant. Rossen, Paul J G, 1st MAW, to MB, Wash, DC.

Blue, Daniel M, jr, 4th MCRRD, to MCSA, Phila.

Croyle, Fred K, NAS, CorpC, to 3d Mar Div.

Deweese, Raymond, HqMC, to 1st MAW.

Self, John L, 3d MAW, to HqMC.

Ball, Vernon E, 3d MAW, to 1st MAW.

CAPTAIN

Brooks, Thomas D, NAS, Pncla, to 2d MAW.

Love, Edgar J, NAS, Pncla, to 3d MAW.

Miller, Hubert E, 1st Mar Div, to MB FLE ACTY, Yokosuka.

Owen, Delmar A, ForTrps FMFLant, to 3d MAW.

CORPS' NEWEST B/G

Col. William J. Van Ryzin, Secretary of the Marine Corps General Staff, becomes a brigadier general 1 February.

Colonel Van Ryzin, 44, a University of Wisconsin graduate, is one of eight officers picked for one-star rank by the Fiscal Year 1959 selection board.

He resides with his wife, Evelyn, and their two sons, at 4012 North Woodstock Street, Arlington, Va.

Sewell, Charles A, AirFMFLant, to 1st MAW.

O'Donnell, Harold F, 2d Mar Div, to MCB CamLej.

Anderson, Wayne C, NAS, Pncla, to 3d MAW.

Blair, Anthony L, 3d MAW, to NAAS El Centro, Calif.

Dunwell, Ronald P, 2d Mar Div, to USS Princeton.

Faulk, Samuel G, MCB, CamPen, to USS Oriskany.

Cahill, John J, 1st Mar Brig, to 2d MAW.

Lindsey, Joe A, NAS, CorpC, to MAG-26.

May, Kenneth F, NavB, Brem, to HqMC.

1ST LIEUTENANT

Andrews, Charles T, 1st MarBrig, to MarCor OSO Phila.

Rogier, John E, 3d Mar Div, to MC NTC GLakes.

Schroeder, Harley C, 1st Mar Div, to MB NAS North Island, Calif.

Sumrall, Haskell H, jr, 1st Mar Div, to USS Oriskany.

Beeunas, Lawrence F, Albuquerque, N Mex, to MCRD S Diego.

Bench, Dan A, USS Rochester, to 2d Mar Div.

Bittner, Robert B, 1st MarBrig, to USS Los Angeles.

Corrigan, Francis M, 1st Mar Div, to USS Rochester.

McNally, Richard T, Olathe, Kans, to 2d MAW.

Plant, Robert, NAS Pncla, to 2d MAW.

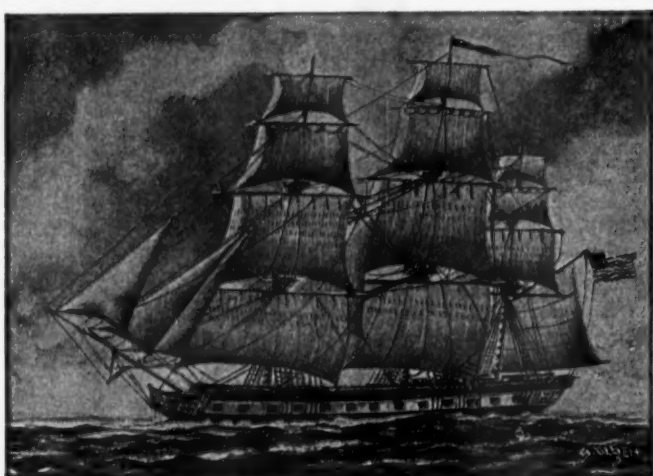
Poland, James A, USS Los Angeles, to MCAS Kaneohe Bay.

Stannard, Robert A, 2d Mar Div, to MCB CamLej.

Hodges, Fletcher, 3d, 3d Mar Div, to MCB PT SC.

Senik, John P, 1st Mar Div, to MCB CamLej.

—Continued on page 11



LOW COST PROTECTION. USF ESSEX. Originally fitted out in 1799 and built by public subscription the Essex afforded low cost protection for the people of the United States. Carrying 32 guns she gained fame on her famous raiding cruise in the South Pacific from 1812 to 1814.

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Write for information to Box 217, The Journal.

Navy League Seeks Award Nominees

The Navy League is seeking nominations for their annual awards to be presented at the annual convention in Philadelphia in May. The awards are in the following fields:

- (1) **The John Paul Jones Award**, inspirational leadership; recipient last year, RAdm. J. S. McCain, Jr., office of CNO.
 - (2) **The Rear Admiral William S. Parsons Award**, scientific and technical progress; recipient last year, RAdm. William Raborn for Polaris project.
 - (3) **The Stephen Decatur Award**, operational competence; recipient last year, Cdr. William R. Anderson for Nautilus polar cap operation.
 - (4) **The Albert Thayer Mahan Award**, literary achievement; recipient last year, Cdr. Frank Manson for several literary efforts.
 - (5) **The Robert M. Thompson Award**, outstanding civilian leadership; recipient last year, Ralph J. Cordiner for work on military pay bill.
- Nominations should be fully substantiated and forwarded direct to the Board of Awards, Navy League of the United States, Mills Building, Washington, D. C. Nominations must be received prior to 15 March 1959 for consideration.

Marine Corps Grants Extended Tours To 37

The Marine Corps has extended the active duty tours of 37 Reserve officers, including four captains, 31 first lieutenants and two warrants.

Their names and final dates of the extensions are:

- Captain**
- To March 60—Robert B. Moore.
 - 30 June 60—Rollin Q. Blakeslee.
 - 30 June 62—Steven N. Kash and John J. McCauley.
- First Lieutenant**
- 30 Aug. 59—John H. Gallaher and Norman J. Labhart.
 - Jan. 60—Harold W. Knight, III.
 - Feb. 60—Rex R. Bales and Carmen P. Shirle.
 - 30 June 63—James W. Hancock.
 - 31 July 60—James E. Grimshaw.
 - Aug. 60—Robert E. Short.
 - Sept. 60—John F. Delaney.
 - Nov. 60—Jack H. Pulcheon.
 - 31 Jan. 61—Douglas F. Keith.
 - 31 March 61—John T. Maxwell, Jr.
 - 31 May 61—John F. Cunningham and Peter C. Scaglione.
 - 30 June 61—Donnie M. Griffay, Edward H. Loney, Joseph C. Marelo, Bernard C. Darr and Harold J. Delbier.
 - 30 Sept. 61—Peter E. Benet.
 - 31 Dec. 61—John A. Martin.
 - 28 Feb. 62—Donald F. Crowe.
 - 31 March 62—Freddy W. Beavers.
 - 30 June 62—Walter F. Flato, Paul H. Wegener and Ralph W. Caspole.
 - 31 Oct. 62—Donald M. Babilitz.
 - 31 Jan. 63—Raymond F. Wiley, Jr.
 - 30 June 63—Vincent A. Ustach, John A. Jennings, Jr., and Don L. Leach, Jr.
 - 29 Feb. 64—Horace E. Holman.
 - 30 June 60—Earl N. Harwell.

U. S. NAVY ORDERS

William B. Franke—Under Secretary of the Navy
 *Garrison Norton—Assistant Secretary of the Navy for Air
 Fred A. Bantz—Assistant Secretary (Material)
 *Assistant Secretary (Financial Management)
 Richard Jackson—Assistant Secretary (Manpower, Personnel & Reserve Forces)
 Admiral Arleigh A. Burke—Chief of Naval Operations
 *Resignation effective February

CAPTAIN

Ashton, Arthur H., Staff CincSouth; to Staff ComUSNavSuppFor Antarctica WashDC.
 Bromley, John R., OpNav; to ALUSNA and ALUSNA for Air Tokyo.
 Connor, Terrill H. W., Staff ComOpDevFor; to CO USS Taconic.
 Gelb, Martin J. (DC), NAS North Is SDiego; to NavSta Subic Bay.
 Gibson, Edwin E. (CEC), DPWO 9thND; to PWO NAS Mirimar.

Gurnette, Byron L., ComPhibRon Seven; to BUPers.

Hardy, Robert J., ComDesRon 24; to OpNav.
 Jackson, Edward F., OpNav; to ONM Nav Dept.

Kercheval, Robert M., OpNav; to The JStaff Ofc JCS WashDC.

Lindsey, Robin M., NavHosp Bethesda Trmt; to OpNav.

—Continued on page 17

Space Agency Wants Chincoteague Station

The Chincoteague Va. Naval Air Station, which the Navy will close by 30 June, will be transferred to the National Aeronautics and Space Administration.

Pending completion of technical studies, the NASA plans to use the station in connection with the nearby Wallops Island Station.

Use of a portion of the Chincoteague facilities is expected to save the NASA an estimated \$2.5 million in its launching site construction program at Wallops Island.



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 PIEDMONT AIRLINES

SOUTHERN AIRWAYS
 TRANS-TEXAS AIRWAYS
 TRANS WORLD AIRLINES
 UNITED AIR LINES
 WEST COAST AIRLINES
 WESTERN AIR LINES

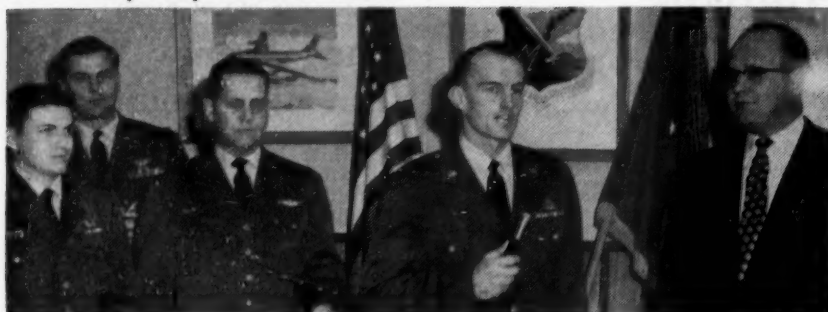
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CHAMPIONSHIP CREW—Col. Donald E. Hillman (center), commander of the 92d Bombardment Wing, Fairchild AFB, Wash., praises his championship crew for their having taken top crew honors at the recent SAC Bombing and navigation tourney at Castle AFB, Calif. From left, Capt. Carl E. Fleece, Maj. Donald L. Holmes and Maj. Ray C. Elliott, three of the 326th Bomb Squadron crew; Colonel Hillman; and Mr. Fred T. Carlson, Boeing Airplane Company technical representative at Fairchild AFB.

Board Convenes 30 March To Choose Regular Majors For Permanent Promotion

(AF Promotion Plans, Page 21)

THE Air Force will convene a selection board about 30 March to choose Line and Staff Corps majors for permanent lieutenant colonel. In selecting Line officers, the board will consider all permanent majors, including WAF and newly integrated officers, with dates of rank of 6 December 1951, or earlier.

The anchor man in the selection zone is Daniel J. Noble, No. 2319, 1958 Air Force Register.

The zone of eligibility for Medical, Dental, Veterinary, Nurse and Chaplain Corps officers includes all permanent majors with promotion list service dates of 31 December 1939 who are not currently carried on recommended lists.

The junior officer in each of the Corps listed above is: MC, Robert M. Tirman, No. 44; DC, Charles A. McMahon, No. 24; VC, Wilbert C. Nichols, No. 13; NC, Betsy Bradford, No. 80; ChC, Paul Tomasovic.

The Nurse Corps eligibility zone includes permanent captains who were promoted to permanent major on 13 February 1958, with rank from 9 December 1957.

In the Medical Service Corps, the board will consider all permanent majors with dates of rank of 14 December 1950 or earlier, and newly integrated officers with promotion service dates prior to 12 July 1941. The zone extends through Maynard A. Sangster, No. 22.

Medical Specialist Corps officers include those with dates of rank before 18 April 1935. The anchor man in the zone is Jack LaRue, No. 3.

Air Force Will Give Promotion Word To 939 Anxious Majors On 2 February

THE Air Force, which had 14,369 officers eligible for promotion to temporary major, and which finally considered 2734 recommended by major commands, will announce 2 February the names of 939 who will receive silver leaves.

THE JOURNAL will publish the complete list of selections in next week's issue.

Here is a rundown on the promotion action to lieutenant colonel.

The 14,369 officers who met eligibility criteria for lieutenant colonel were divided as follows:

Line of the Air Force	13,700
Medical Corps	106

Dental Corps	87
Nurse Corps	103
Veterinary Corps	23
Chaplain	189
Medical Service Corps	157
MedSpC	4

The 939 majors selected were divided as follows:

Line of the Air Force	839
Medical Corps	52
Dental Corps	3
Nurse Corps	4
Veterinary Corps	3
Chaplain	8
Medical Service Corps	29
MedSpC	1

Airman Rating Changes Go Into Effect 1 Feb.

Major changes in the regulation governing the preparation of the Airman Performance Report (AF Form 75) go into effect 1 February.

Standards established by the revised regulation specify that:

The rating officer must understand thoroughly which qualities are to be rated, eliminate all personal prejudice, gossip and rumor from consideration, and know a great deal about the man he is rating.

Consideration must be given to the quantity and quality of work produced by the airman being rated, his job qualifications, and how he compares with other men doing the same type of work.

The rater must have closely observed the man's behavior and performance of duty, know his weak and strong points, and the quality and results of his work.

Job performance—not the importance of the job—will be the rating criterion. Opinions should not be based on isolated incidents, nor should small incidents be given the importance of critical ones.

Ratings will reflect only those incidents which fall within the reporting period. Over and under ratings must be avoided.

Other major changes in the regulation include: Placing the Form 75 in the "For Official Use Only" category, thus prohibiting review by persons not properly concerned; establishment by major air commands of procedures for review and correction of inaccurate, unjust, or unfairly prejudicial performance reports.

RESERVE BOARD WILL SCREEN 1100 MAJORS

Approximately 1100 Air Force Reserve majors not on extended active duty with a promotion service date of 30 June 1953 or earlier will be considered for lieutenant colonel by a selection board which will convene 2 to 6 March at the Air Reserve Records Center, Denver.

Reserve officers eligible for consideration for promotion are authorized by Section 8362, Title 10, United States Code, to submit a letter to the President of the selection board, containing any information that they desire the board to consider in their behalf.

Reserve majors not on active duty should address their letters to the President, Air Force Promotion Selection Board, Air Reserve Records Center, 3800 York Street, Denver 5, Colo. The letters should arrive at the Records Center not later than 15 February 1959.

Col. Hippler Returns From Saudi To Orlando Duty

Col. William P. Hippler has been assigned to Headquarters Air Rescue Service at Orlando AFB, Fla., as CoFS and Director of Administrative Services. He had served as CoFS to the U. S. Training Mission in Saudi Arabia.

During his present assignment Colonel Hippler will reside with his wife, Helen, and daughter, Diana, 9, and their son Jeffrey, 7, at 719 Mayfair Circle, Orlando.

Selfridge ISO To Ops. Post

Maj. Lewis W. LaGro, former Information Services Officer at Selfridge AFB, Mich., has been named Director of Operations, 1st Fighter Wing there. He replaces Lt. Col. R. E. Benefiel, transferred to ARDC Headquarters.

B/G Jones Chosen Republic Exec. V. P.

President Mundy I. Peale has announced appointment of Brig. Gen. Harley S. Jones, USAF-Ret, who served as Air Force aircraft and missile production planner through two wars, as Executive Vice President of Republic Aviation Corporation.

Upon retirement in 1957 after 31 years' service, Jones received the DSM—highest peace-time decoration—for his formulation and implementation of production techniques.

Between 1940 and 1957 General Jones, who is 56, played a prominent part in production of the B-17, B-24, B-25, B-29, B-50 and B-47 bombers, the C-97 and C-119 cargo transports, the F-102 interceptor and the F-84F and F-105 fighter-bombers; the Bomarc missile, and the Rolls-Royce V-1650 and Pratt and Whitney R-2800 and J-57 engines.

Republic builds the Air Force's newest and fastest fighter-bomber, the F-105 Thunderchief, and has recently embarked on a \$35 million research and development expansion program.

General Jones is married to the former Jane E. Shaw, of Randolph, Wis. The Joneses have two married daughters, Mrs. James N. Cassill, of Seattle, and Mrs. William Malone, of Los Angeles.

The new Republic executive is residing temporarily at 34 Hamilton Place, Garden City, L. I.



Airmen Promotions

The Air Force has revealed plans to promote 25,900 airmen for the third quarter of FY 1959 on 1 March as follows:

SM	E-8	3,000
M	E-7	400
T	E-6	500
S	E-5	2,500
A	E-4	8,500
A	E-3	11,000

Here are the comparative quotas for the first and second quarters of this fiscal year.

	1 Sep	1 Dec
E-8	2,000
E-7	550
E-6	700	600
E-5	2,800	2,800
E-4	3,500	6,000
E-3	13,000	12,000
	22,550	21,400

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General White Outlines AF Plans

From page 2—

might decide to undertake some aggressive action against NATO. In such an undertaking, the enemy could bank on the fact that if the United States were to respond with an attack on his country, we could only do so at the absolutely guaranteed cost of tremendous destruction in the United States, because no longer would we have the capability to attack and destroy the military strength of the enemy that could impose this destruction on us.

To look upon this force of lesser capability as a deterrent force is, we feel, dangerous to national survival and continued U. S. leadership of the Free World.

The United States must be capable of destroying the military power of the enemy. This capability is the foundation of our deterrent posture. This is the only thing that will deter the Soviets from taking aggressive action against our allies and from launching a devastating nuclear attack against the United States.

It will be difficult and expensive to maintain this capability. Yet anything less than this cannot be called adequate deterrence.

STRATEGIC FORCES

Although all forces contribute to deterrence of war, the Strategic Air Command is the primary deterrent force by virtue of its established capability.

In order to perform the task of the long-range strike force, thousands of targets have been screened—over 20,000 of them—in analyzing the strengths and weaknesses of the Soviet Union and the Communist Bloc. We know what targets must be destroyed. Our war planes are based on this target analysis.

Targets must guide the development of our long-range air forces during the coming years, just as they have done in the past.

In long-range air weapon systems, more emphasis will be placed on an intercontinental capability. Our first generation ICBM's will have ranges of 5500 nautical miles.

The B-52 has the intercontinental capability needed in our bombers. This aircraft, with a 10,000-pound bomb load, can take off from Loring, Maine, attack targets in the enemy heartland, and return to the United States without air refueling.

Increased range, provided by KC-135 tankers, adds much flexibility to our bomber force.

During the coming years we will maintain an in-being long-range air capability by a mixture of aircraft and missiles. Missiles will provide a quick reaction capability and a compression of time to target.

On the other hand, bombers are a proved weapon system and are inherently more flexible. They can respond to the judgment and intelligence of their crews throughout their missions.

Thus, a combination of weapon systems, each complementing the other, will give us greater total capability.

Security of the force is another basic factor which must be considered in the development of strategic forces. Measures are being taken to assure that a large portion of our force will survive a Soviet attack.

There are two measures which will improve our survivability during the 1960 time period. One means is to have significant numbers of our aircraft in the air. In order to accomplish this, we must have a ground alert and a quick takeoff capability, coupled with warning.

Another way to have our bombers in the air is to have a portion of our force on continuous airborne alert.

Thus, being in the air represents one basic means of survival.

The other basic means of survival will be wide dispersal and hardened bases. Missiles are particularly well suited to this approach and these means

of survival will be utilized in their case.

Based on estimates of cost effectiveness, we consider that the Minuteman is the missile that should be put into quantity production. The Minuteman is smaller and cheaper than the first generation missiles. The Minuteman can be mass-produced, a capability in which our country excels. Development progress on solid propellant engines and very accurate guidance systems supports the objectives we have established for Minuteman.

Bombers and missiles together must perform the strategic air tasks during the coming years.

AIR DEFENSE FORCES

Air defense forces make a significant contribution to our military strategy as one integral element of the total military establishment.

The three fundamental tasks which must be performed by air defense are:

First, WARNING. Warning to alert our military forces and to insure that our bombers are given time to take off prior to an attack; and warning to implement civil defense measures.

Second, Air defense must insure continuous surveillance and control of our own aircraft and missiles in our own air space; and we need this control to route our bombers away from areas where the air defense battle is being fought.

Third, Air defense must provide a capability to destroy enemy attackers.

In performing these tasks we apply three basic air defense principles—forward defense, centralized control, and a mixture of weapons.

Forward defense insures that the initial attack on enemy forces is made as soon as possible after detection. The enemy must be attacked as far as possible away from his targets—he must be attacked in remote areas. This defense also provides for continuous attack after detection, to assure destruction of the enemy before he reaches a point where his air-to-surface missiles can be launched. Also, if we delay our attack until the enemy reaches his target area, his bomb could still detonate and cause large numbers of casualties.

The range at which these bombers must be attacked will steadily increase

31 Jan. 1959 (Vol. 96, P. 641)

Army Navy Air Force Journal 9

U. S. AIR FORCE ORDERS

James H. Douglas, Jr.—Secretary of the Air Force
Malcolm A. MacIntyre—Under Secretary of the Air Force
Assistant Secretary (Material)
Lyle S. Garlock—Assistant Secretary (Financial Management)
Assistant Secretary (Manpower Personnel & Reserve Forces)
Richard C. Horner—Assistant Secretary (Research & Development)
General Thomas D. White—Chief of Staff

MAJOR GENERAL

Alness, Harvey T. Hq ADC, Ent AFB, rel fr dy as DCS/Plans & Oprs, Hq Continental Air Def Comd & DCS/Plans & Oprs, Hq No American Air Def Comd; & asg dy as VCS, Hq No American Air Def Comd & Hq Continental Air Def Comd.

BRIGADIER GENERAL

Taylor, Robert, 3d, Hq ADC, Ent AFB, w/dy as DCS/Intel, Hq Continental Air Def Comd, is asg dy as DCS/Intel, Hq No American Air Def Comd.

Pierce, Arthur J. Hq ADC, Ent AFB, w/dy as Dir/Plans & Reqmnts, Hq Continental Air Def Comd, is asg dy as Dir/Plans & Reqmnts, DCS/Plans & Oprs, Hq No American Air Def Comd.

Dreyer, Christian F. Dep Dir/Installations, Ofc, DCS/O, Hq USAF, is rel fr add dy as Dep Dir for Real Property, eff 1 Jan 59.
Curtin, Robert H. Ofc, DCS/O, Hq USAF, is rel fr dy as Dep Dir/Installations; & asg dy as Dep Dir/Real Property, eff 1 Jan 59.

LIEUTENANT COLONEL

Hayes, Ralph M. Seymour Johnson AFB, to 507th Communications & Contr Gp, TAC, Shaw AFB.

Scofield, George B. McGuire AFB, to 1080th Med Svcs Sq, Letterman AH, Presidio/SF.

MAJOR

Gaston, John S. Jr. Biggs AFB, to 40th Bmbard Sq, SAC, Walker AFB.

as they become faster and employ air-borne missiles.

The initial requirement for centralized control is to compare CAA and other known flight plans with radar tracks, for the purpose of identification and raid recognition.

It also provides for control of our own air operations. Air defense must

—Continued on page 20

Lt. Col. R. A. Bell Heads D.C. Air Defense Personnel

Lt. Col. Russell A. Bell has been assigned to the Washington Air Defense Sector, Ft. Lee, Va. as Director of Personnel. He succeeds Col. John B. Gaffney, who retired 31 December.

Colonel Bell formerly Assistant Director of Personnel at the Boston Air Defense Sector, Stewart AFB, N. Y., is married to the former Miss Beverly M. Wittnebert of Houston, and has two children, Russell, 11 and Richard, 6.

Fr Wash, DC to Sta Indicated

Weeks, Roy F. dy sta AF CAP Lsn Ofc, NMex Wg, Kirtland AFB.
Milnor, William H. Det 425, Miss State Univ, State College.

CAPTAIN

Thacker, Ruby L (NC), Walker AFB, to dy Sta Columbia University Teachers College, NYC.

Solis, Maria D C, Harlingen AFB, to Ft Sam Houston, Tex.

Hunter, Robert D. McGuire AFB, to Hq MATS, Scott AFB.

1ST LIEUTENANT

Hemmingsen, William D, Harlingen AFB, to APO 187, NY.

Pilcher, Frank C, McGuire AFB, to Hq MATS, Scott AFB.

Green, Rosalie A, LG Hanscom Fld, Mass, to 1611th Air Terminal Sq, MATS, McGuire AFB.

Mulvaney, Robert C, Selfridge AFB, to 3401st Stu Sq, 3380th Tech Tng Gp, ATC, Keesler AFB.

2D LIEUTENANT

Kopple, Dan P, McGuire AFB, to Hq MATS, Scott AFB.

—Continued on page 16

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Assistant Editor

31 JANUARY 1959

Fight Grows To Correct Injustices To Retired

The new Congress, as reported in this and recent issues of THE JOURNAL, has been marked by an unusual show of interest in correcting some of the many unfair disparities which plague personnel on the retired lists of the Armed Services.

First in the matter of pay, 30 Senators and 25 Representatives have subscribed to bills designed to apply the pay rates of the 1958 Act to all retired personnel—those already retired at the time the Act was passed as well as those retired since. Only the latter group has thus far benefited from the new scales.

Next, there is a renewed interest in the proposal to abolish or temper the ancient and harmful so-called dual employment and dual compensation laws. Measures have been introduced to take these laws off the statute books and there are growing indications that full-scale hearings will be launched in the current session of Congress.

In another area, legislation has been proposed to extend the provisions of the Survivor Benefits Act to families of retired career members of the Services. Under current conditions, family protection terminates upon retirement—just at the time when it is most needed and can be least afforded.

These are all matters of simple justice. Correlation between active and retired pay is an established principle in the American military system. The dual compensation and dual employment acts force retired people either into idleness or into industry. A retired family needs the coverage of Survivor Benefits even more than those on the active list.

Yet an even more compelling reason why these inequalities should be corrected lies in their effect on active career personnel. The prospect of retirement with its traditional rights and privileges is one of the strongest reasons why men make careers in the Armed Services. When they see these rights being abrogated in such vital areas as pay, family protection, and job opportunities, their enthusiasm for Service careers wanes. They fear that the same treatment may be accorded them when they reach retirement age. Furthermore, in the matter of dual compensation and dual pay restrictions, the government is denying itself the services of qualified, experienced, and loyal civil servants.

There are the faint-of-heart who feel that the budget balancers will beat down movement to correct the retired pay injustices. THE JOURNAL is not one of these. Just as in the dark days preceding the enactment of the Cordiner pay provisions, when others were conceding defeat and THE JOURNAL kept up the fight, so today we will continue to wage the battle to safeguard the rights of the retired. We believe there are enough sympathetic Senators and Representatives who understand the impact of these injustices upon the entire active list to bring action.

THE JOURNAL congratulates the members of Congress who are actively working to correct these inequalities and pledges its own ceaseless support on these vital projects.

AF Space Medicine Studies Prepare Man For Future

As military and civilian scientists and engineers design the engines and vehicles capable of putting humans into space, the Air Force's Division of Space Medicine at the School of Aviation Medicine is well along in assuring that man can live and function safely under a strange environment far from his earthly home.

For ten years, specialists at the School of Aviation Medicine at Randolph AFB, Tex., have been studying and experimenting to determine man's ability to tolerate the physical stresses of flight into space and the equipment and procedures needed to provide his rocket vehicle with the environment necessary, not only for him to sustain life but to permit him to function at the high level of efficiency required to make his trip productive and profitable.

The fascinating story of those ten years and an idea of the complexity of the problems faced are told in the interesting article on the first page of this issue by Maj. Gen. Otis O. Benson, USAF(MC), Commandant of the School of Aviation Medicine.

The Division of Space Medicine was started and is operated to

strengthen the military power of the United States. Yet, like so many other military projects it will contribute immeasurably to peace-time civilian progress.

THE JOURNAL salutes the School of Aviation Medicine on the forthcoming tenth anniversary of its Division of Space Medicine—a salute which we are sure reflects the respect and admiration of the Services and the Nation.

Military Musicians Boost Morale; Build Goodwill

THE JOURNAL's report on the movement to establish a unified school for bandmen of all the Services (see page 1), points up the important role played by musicians in uniform and their contributions to the efficient operation of the Armed Forces.

Service bands do a great deal more than march in parades. Their music contributes to Service morale in many ways—by concerts for Service families, dance music for club functions, background music for ceremonies, etc. Life on isolated or remote Service establishments is brightened and made more cheerful by the strains of the bandmen's music.

Beyond its internal uses, the Service band is an important factor in community relations. Neighboring citizens may be irked by noisy aircraft or rumbling tanks but they all like the Service bands which give public concerts and participate in local public functions. The Seventh Army's Symphony Orchestra has made many friends in Europe for the United States. The Air Force Band has embarked on a tour of South American countries which will engender much good feeling toward their neighbor to the north.

Furthermore, every bandsman has two hats, for his role as a musician is always paralleled by a combat function in which he must maintain efficiency. He is an important man to the National Defense Team.

Surgeon General Issues Statement On Medical Service's First Decade

The following statement was released to THE JOURNAL by Maj. Gen. Oliver K. Niess, USAF (MC), Air Force Surgeon General:

IN 1959, the Air Force Medical Service will complete its first 10 years in support of the Air Force mission.

In this first decade we have seen very sizable changes in Air Force aircraft, and the medical research team has been largely successful in keeping our knowledge of human factors well ahead of the parade of newer, faster, higher performance aircraft and weapons systems.

Our pilots, and air and ground crews must have ready for their use all the knowledge, equipment and survival facilities that Air Force medical science can help to give them. And they must have all this before the first flight of any new item of Air Force operational "hardware."

"Dramatic Dimensions"

The enlarged time and spatial dimensions of the Air Force in the past 10 years has been most dramatic. The Lockheed F-104 Starfire can fly at 1400 miles per hour at altitudes over 90,000 feet—far above most of the Earth's atmosphere. This is in sharp contrast to the relatively low and slow F-80 Shooting Star which could clank along back in 1949 at 600 miles an hour, with a service ceiling of about half the F-104's.

The 400 mile an hour B-36 was a much less demanding airplane than today's Convair B-58 Hustler which can blast along at 1200 miles an hour at more than 50,000 feet altitude.

But despite these dramatic changes in the Air Force operational inventory, we have seen no basic change in the American Airman himself. He hasn't changed physically, and he is still the most valuable and the most complex part of any Air Force operational weapons system.

"Adam-and-Eve Model"

In the next 10 years, as in the first decade, the Air Force Medical Service will be working with the same basic Adam-and-Eve model of man, and working very hard to make certain that he can fly and fight safely and successfully in the supersonic and space age.

Our immediate mission is to make certain that no medical factor compromises Air Force operational capabilities. Our longer range mission is to help keep human factors engineering five to 10 years ahead of aircraft, spacecraft and weapons systems developments.

With these missions, I believe that our efforts will affect the course of the Nation's defense effort as profoundly in the next decade as it has in the first 10 years since the Air Force Medical Service was organized.

READERS' VIEWS

Norfolk Tuition Exemption

■ During the past few days, there have been reports from Washington that, at last, the Government is going to do something about the education of Navy children in Norfolk.

I have no intention whatsoever in this letter to become involved in a political dispute. My reason for writing, to be frank about it, is financial.

We happen to be one of those families which is paying tuition so that our children can continue their education.

I think it is only fair that Washington authorize any Service family that is put to added expense for education of their children because of the segregation dispute to take a special income tax deduction for this expense.

COMMANDER, USN

IN THE JOURNAL

10 Years Ago—The Air Force has adopted a new slate blue uniform identical for officers and enlisted men except for rank insignia and announced that all airmen will be equipped with the new uniform by 1 Sept. 1950.

50 Years Ago—If the good state of California has made up its mind to "sass" Japan it will do well to urge upon Congress the importance of providing a fleet for the Pacific and fortifying the Pacific coast.

95 Years Ago—The revival of the Congressional Committee on the Conduct of the War will affright the souls of our Generals with the vision of new inquisitorial processes. Let them at once prepare for the visitation of three single gentlemen, vested with the awful power of hauling them over the coals for all their doings and misdoings.

Space Doors Are Unlocked; But How Will Man Survive In Strange Environment?

From first page— problems posed by manned space travel and to begin outlining a pro-hold undertook a theoretical study of the environment of other planets and Dr. Haber began the design of zero-gravity experiments. At the same time they undertook a survey of the literature to gather all available material concerning flight outside the atmosphere.

In the Fall of 1948, General Armstrong invited six prominent physiologists and psychologists to the School for a panel discussion on the medical problems of space flight. This group met on 10 November 1948. General Armstrong, together with Drs. Strughold and Haber, made formal presentations of the material compiled at that date, and the guest panelists discussed the papers and endeavored to present an over-all picture of the problems faced by this new science.

Research Program Launched

By January 1949 Dr. Strughold and Dr. Haber felt they could begin a formal program of research. Dr. Strughold, with the concurrence of Dr. Haber, recommended to General Armstrong that a special department for the study of medical problems involved in travel outside the atmosphere be established at the School. General Armstrong agreed this should be done and requested Dr. Strughold to submit detailed plans of the departmental requirements and the research areas to be investigated. About three weeks later, on 9 February 1949, General Armstrong officially announced the creation of a Department of Space Medicine at the School of Aviation Medicine, with Dr. Strughold as Chief and Dr. Haber as Staff Member.

There were no precedents to follow in beginning work on the medical problems of space travel. The new field lent itself to wild speculation, and these pioneer workers were frequently looked upon as impractical dreamers or visionaries by their colleagues. They persisted, however, and set about to establish their places alongside the older biological sciences related to aviation medicine.

Their problem area was, and is, broad and crosses many scientific disciplines—astronomy, biology, physics, medicine, and so on.

First, there are certain hazards arising from the physical processes of placing a man in space. Exotic propellants, either chemical or nuclear, are required for the rocket engines. Toxicity of the chemicals or radiation hazards from nuclear propulsion need to be determined. A powerful thrust is necessary on takeoff to insure sufficient acceleration to hurl the vehicle beyond the earth's gravitational field and into space. How many "G's" can the human body endure? Later, on re-entry, the problem is reversed, and deceleration of the craft as it comes into the atmosphere must be considered.

Recreate Earthly Atmosphere

Since man cannot exist without the elements of his earthly atmosphere, he must take it with him, or find a way of recreating it, when he ventures out into space. This necessitates the design and construction of a sealed unit or cabin to enclose the space traveler along with a life-sustaining atmosphere. A balanced diet for the space crew must be planned, and an adequate food and water supply provided, taking into consideration weight and space limitations. Adaptation to an artificial day-night cycle, isolation, and confinement have both psychological and physiological implications. It is theorized that space-men will become weightless and both men and objects will float freely. Outside the cabin lurk potential dangers from solar radiation, cosmic ray particles, and meteorites.

This myriad of obstacles on the road to space may have discouraged most—but not Drs. Strughold and Haber.

When General Armstrong left the School three months later, in May 1949,

to become Surgeon General of the Air Force, Dr. Strughold was appointed Chief of the Department of Space Medicine. Later in the year, Dr. Konrad Buettner, a bioclimatologist, joined the Department. Initial work involved the collaboration of the staff on a definition of space and a delineation of the areas in which the atmosphere and space overlap. Theoretical studies were made on the human body in space and flight at the borders of the atmosphere. Dr. Fritz Haber, an aerodynamic engineer, and brother of Heinz, was appointed to the Department in January 1950.

A detailed narration of the SAM space scientists' struggle for recognition and of their accomplishments cannot be given here. I will, however, discuss briefly by topic some of the major areas of investigation.

SEALED CABIN RESEARCH. As stated above, prolonged travel into the atmosphereless environment of space requires the creation of an artificial atmosphere to sustain the space crew in a completely closed or sealed cabin. Oxygen consumed by the cabin occupants must be replenished and the carbon dioxide exhaled must be absorbed. Cabin interior temperature raised by the crew's own metabolism, humidity from perspiration and respira-

SPACE DR. HONORED

Dr. Hubertus Strughold, Advisor for Research and Professor of Space Medicine at the Air Force School of Aviation Medicine, has received the 1958 Dr. John J. Jeffries Award for outstanding contributions in space and aviation medicine research.

The award, one of the highest and most coveted which can be tendered a scientist in the aeromedical field, is presented annually to the individual responsible for outstanding contributions to the advancement of aeronautics through medical research. It is awarded by the Institute of the Aeronautical Sciences.

Among past winners are General Benson; Maj. Gen. Harry G. Armstrong, USAF-Ret., former Commandant of the School and later Air Force Surgeon General; Dr. William Randolph Lovelace, of the Lovelace Foundation, Albuquerque, N. M.; Lt. Col. David G. Simons, newly assigned to the School of Aviation Medicine, and Col. John P. Stapp, Chief of the Aeromedical Laboratory at Wright-Patterson AFB, Ohio.

Dr. Strughold accepted the award at the Institute's Honors Night Dinner 27 January at the Astor Hotel, New York City. With him at the ceremony was Colonel Simons, who won the Jeffries Award in 1957 for his record-breaking balloon flight to 102,000 feet.

Dr. Strughold and Colonel Simons later presented scientific papers at the Space Medical Symposium of the Institute's annual meeting.

Dr. Strughold, the 18th scientist to receive the Jeffries Award, is the fifth member of the School of Aviation Medicine to be so honored.

tion, and odors from body wastes must be controlled. Plans for the construction of a prototype sealed cabin were approved by the SAM Research Council in 1952. Based on specifications prepared by Dr. Fritz Haber, the chamber was constructed by a civilian engineering firm and delivered to the School in the Summer of 1954. This cabin, called the "Space Cabin Simulator" is a cylindrical chamber, measuring 96 cubic feet. One half this space is taken up by instruments. This simulator was designed for the study of various aspects of space flight, with emphasis on such things as human tolerance to combinations of oxygen, carbon dioxide, water vapor, and other gases; isolation and confinement; fatigue; and artificial



Maj. Gen. Oliver K. Niess, left, Air Force Surgeon General and Col. John P. Stapp, Chief of the Aeromedical Laboratory at Wright-Patterson AFB, are "weightless" in a test chamber at the School of Aviation Medicine.

day-night cycles. It can also serve as a trainer and indoctrination device for space crews. The disposal of wastes, particularly the possibility of purifying and reusing wastes, has been studied extensively in conjunction with the cabin tests.

Instruments were designed, built and tested and procedures were worked out for maintaining a human subject in the Simulator and for recording his reactions. Test runs of a few hours duration were begun, gradually working up to a successful 24-hour test using a human subject in March 1956. This testing program was continued and the instrumentation and procedures were improved to the point that in February 1958 a subject spent seven days in the Simulator. Since then many similar experiments have been completed. A contract has been awarded to construct a larger and improved model of the cabin for extension of all the studies.

PHOTOSYNTHETIC GAS EXCHANGER. For extended space trips lasting perhaps weeks or months, a supply of oxygen sufficient to maintain the space crew cannot be carried along because of the excess weight. Thus a compact system for replenishing oxygen and absorbing carbon dioxide must be provided. Dr. Strughold believed the best approach to this would be to utilize the natural process of photosynthesis through the use of plants. He initiated an Air Force contract with Dr. Jack Myers, head of the Department of Zoology, University of Texas, to investigate algae, a common water plant, as a photosynthetic gas exchanger. Algae was chosen because it has the highest rate of photosynthesis of the entire plant kingdom. Under the contract, initiated in 1952, Dr. Myers constructed an algae chamber and has experimented extensively with this

plant. He estimates that five pounds, fresh weight, of the common algae *Chlorella pyrenoidosa*, can support the oxygen requirements of one man in a closed environment. The drawbacks to this system, however, are that the algae require a constant intense light source and must be suspended in a nutrient solution. The total volume of such an arrangement may be prohibitive to its use unless a compact unit can be designed.

In 1956 an algae chamber was built in the School's own laboratory and studies were begun to supplement those of Dr. Myers. In addition to its use as a gas exchanger, algae may be a possible food source for the spacemen as it has a high protein content as well as some of the vitamins, and is partially digestible.

PHYSIOLOGICAL DAY-NIGHT CYCLE. The concept of natural day and night loses its meaning in space. Part of the time the satellite vehicle will be in direct sunlight and part of the time in total darkness as it moves within the earth's shadow. An artificial day-night cycle must be created and maintained for the space travelers. Dr. Strughold studied this problem in global airline flights during which passengers crossed several time belts, forcing them to readjust their sleep-work schedule. Also during the Space Cabin Simulator tests at the School, various work-rest cycles have been tested.

WEIGHTLESSNESS. When the last traces of air are left behind and man moves into the void of space, it is theorized that the function of his gravireceptors, or the senses which control his equilibrium, will be affected, if not lost altogether. The gravireceptors enable us to stand upright and coordinate our movements, and to perceive

—Continued on page 20

ARMY NAVY AIR FORCE JOURNAL ESTABLISHED 1863

Published every Saturday by the

Army and Navy Journal, Inc.

1710 Connecticut Avenue Northwest

Washington 9, D. C.

Phone: HObart 8-1220

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THE PRINCIPLE OF CONSTITUTIONAL RESPONSIBILITY, rather than the fiscal principal involved, could well be the focal point of the main struggle between the White House and Congress over the fiscal '60 budget. There now seems little chance that the President will gain the repeal he seeks of the fiscal '59 floor on National Guard and Reserve strength. Interestingly, Chairman Vinson of the House Armed Services Committee introduced the measure "by request," thereby making it clearly evident that he disagrees with the legislation.

THE CHANCES APPEAR at least 50-50 that Congress will continue the minimum strengths for the Reserve and National Guard in fiscal '60, and the legislators could go one step further. There is increasing support at the Capitol for a budget restriction which would force the Administration to support an active Army of 900,000, instead of the proposed 870,000, and a Marine Corps of 200,000, instead of the projected 175,000.

IF CONGRESS SHOULD STIPULATE such minimum strengths for the Army and Marine Corps and tie the President's hands on this matter, as was done with the Reserve Forces, there is every reason to believe that the Chief Executive would veto the appropriations bill, whether or not he was allowed the item veto he seeks. A Presidential surrender to Congress in the matter of Army and Marine Corps manpower would mean a stunning loss of the Commander-in-Chief's authority. Congressional advocates of the manpower floors insist, on the other hand, that the Constitution lays down the requirement for Congress to raise and support armies, and that it is up to the President to deploy these forces, not to determine their size.

THE '59 CONGRESSIONAL DEBUTS of the Service Chiefs, as reported in this issue, spotlighted some of the most fancy footwork in years. CNO Burke, for example, was not required to spell out the fact that he had strongly opposed cancellation of the Regulus II program. He said simply that "it was necessary this year to cut back Regulus II, even though this was the best air-breathing missile in existence."

GENERAL TAYLOR FOR HIS PART, avoided falling in a bear trap (see Page 30). He handled with care the fact that his '59 estimates of Army manpower needs (925,000) and the Administration's request (870,000) are 55,000 apart by declining comment on his '60 estimates. The Army Chief of Staff also was careful not to press before the Senate Armed Services Committee quite as vigorously as he had done at a Pentagon news conference before the final decisions were made on the '60 budget the Army's need for \$3 billion per year in modernization funds. Nonetheless, General Taylor was able to provide the fiscal reckoning of Army weapons obsolescence. This exercise would permit any legislator who had a pencil handy to calculate that the Army in the new budget could not begin to achieve the rate of modernization sought by its leaders.

GENERAL PATE, noting how Leatherneck attempts at "skeletonizing" units during the past several years have not proved successful, has told Congress that the Corps will reduce the battalion strength of its three divisions from 27 to 21, as well as a cut of six aircraft squadrons from the three air wings. The Commandant concluded with the statement that "everything we have available to us today is in the highest state of readiness." There's little question that many Members of Congress will use the Commandant's report to argue that everything the Marines have available today is not adequate to maintain the full effectiveness of the three divisions and three air wings stipulated in law.

GENERAL WHITE TOOK THE OCCASION of his testimony before the Senate Armed Services Committee to try to shoot down the emphasis on "limited war" requirements in the Army, Navy, and Marine Corps testimony. It is noteworthy that CNO Burke, in his statement, referred to the 18 limited wars since WWII, a tabulation that largely has been employed by the Army in stating its case. Chief of Staff White, declaring that "our present capability to react to limited war situations is good," pointedly noted that in Lebanon and Taiwan, "the Soviets have been constrained—not by the United States battalions and ships and tactical aircraft that we deployed—but constrained to a large degree by the established capability of American long-range air power."

THE MISSILE AGE REQUIRES FAST ACTION, as witness the Air Force's decision to tighten the rules for issuance of its new guided missile badge (see photo Page 2). The Guided Missile Insignia was authorized last Spring. It has been determined that the prestige of the award was being periled, hence the decision to amend the rules.

RETIRING GENERAL E. W. RAWLINGS, USAF, Commander of the Air Materiel Command for the past seven years during which he was responsible for the obligation or expenditure of more than \$87 billion, is certain to receive a Distinguished Service Medal upon his departure from active service 28 February. An official Pentagon news release described General Rawlings as being considered "the outstanding business management expert in the military services." It would not be surprising, in view of his long service as head of the AMC, that President Eisenhower will want to make a farewell medal presentation.

A NUCLEAR CASUALTY PAMPHLET has been distributed by the Air Force, covering care of military personnel. Titled "Medical Material Program For Medical Casualties," Pamphlet No. 160-8-106 describes a Phase I emergency unit of 8 packages weighing 232 pounds. It contains emergency medical care items for 100 nuclear casualties. A Phase II assembly, designed for more extensive treatment of 1000 nuclear casualties, weighs 9878 pounds and costs about \$9466. The Air Force Pamphlet notes that the Phase II Emergency Medical Treatment Unit contains quantities which, it is estimated, can be utilized by 3.4 medical officers, assisted by nonprofessional personnel.

THE ARMY'S SENSITIVITY concerning Air Force charges that the Nike Hercules provides only limited coverage in comparison to the Bomarc missile was reflected in an adroit insertion made by Army Secretary Brucker in testimony prepared for the Senate Armed Services Committee. He noted that by this June, Nike units deployed from Boston to Norfolk "will provide a continuous protective blanket of air defense coverage for an area of approximately 115,000 square miles," added that 158,000 square miles in the Great Lakes area "is already under Nike's protective curtain," and said that with the Nike Hercules defense of Cincinnati, this totals a defensive sector 273,000 miles, six times the size of Pennsylvania. "Although the Nike has occasionally been labeled a point defense weapon," commented Secretary Brucker, "the sector just described demonstrates the weapons system's area-defense capability when properly deployed."

THE NIKE HERCULES BATTALION IN ALASKA will be strengthened by deployment of a second unit to the 49th state. At present, there are 15 Hercules battalions in the U. S., and one each on Taiwan, Okinawa, and Greenland. Additional units soon will be deployed in the U. S. and Okinawa.

THE ARMY IS DISSATISFIED with training given to recruit musicians at its six ZI band training units. The BTU's are said to lack means to raise the musical proficiency of recruits to desired levels. It's a good bet Army authorities will change the situation. One prospect is establishment of a single school for all draftee musicians, similar to the Naval School of Music in Washington, D. C. (see page 1). The new school will be located at a major East Coast installation, possibly Ft. Belvoir, Va., Ft. Meade, Md., or Ft. Jackson, S. C.

THE ARMY'S GREAT HOPE that it can put across a "One Army" concept among the Active Army, National Guard and Reserve, won't be helped by such remarks as made by Maj. Gen. William H. Harrison, Jr., National Guard Association President, to his Executive Council on the '60 budget. Although noting that proposed cuts in the Guard are opposed by the Army, General Harrison commented sharply that "less than two years ago, the Department of Defense spent more on public relations programs to build up the Army Reserve than it will save in the next fiscal year by cutting the strength of the Army National Guard from its present 400,000 to 360,000."

FATHER JOHN F. LABOON, S.J., USNA '43, who won the Silver Star as a submariner in WW II, has been commissioned in the Navy Chaplain Corps. He resigned his commission as a lieutenant in 1946 to begin studies for the priesthood.

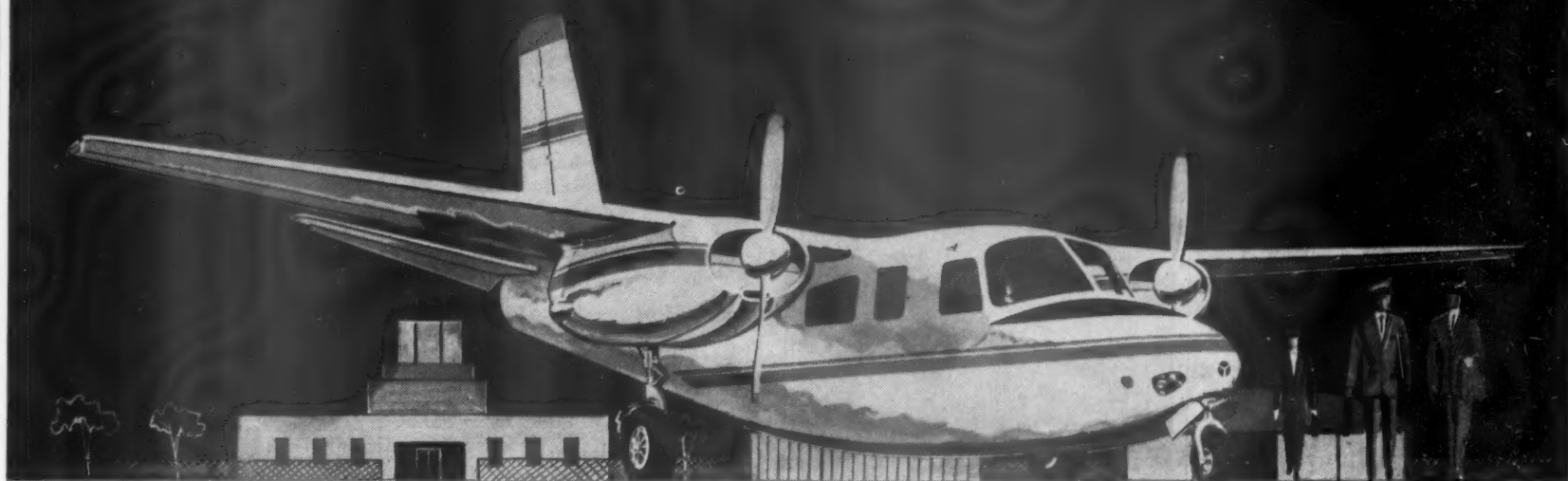
THE AIR FORCE WILL SLICE almost exactly in half its 5000 manpower loss in fiscal '60 between officers and airmen. Information on AF officer promotion plans newly reported to Congress (Details Page 21) shows that the manpower programs provides for a drop from 128,175 officers at the end of this fiscal year to 125,920 at the end of fiscal '60. This is a loss of 2255 officers. In fiscal '57, the Air Force had 136,022 officers on active duty, dropping to 128,398 in fiscal '58.

COL. JOHN C. LACKAS, USA, who probably holds more academic degrees than any other Army officer, has been elected an Associate Member of the Industrial Security Institute and of Civil Defense Research Associates, Inc. A faculty member of the Industrial College of the Armed Forces' Materiel Management Branch, he holds a B.S., M.A., and Ph.D. from New York University; also an LL.B. and LL.M. from Rutgers University Law School; a J.S.D. from St. John's University; and a M.S.S. from the Graduate Faculty, New School for Social Research.

THE COMPTROLLER GENERAL HAS suggested that the Air Force "assure that its accounts disclose accurately the purposes for which expenditures are incurred." This admonition followed discovery by the Comptroller that Air Force accounting records showed as part of the cost of "Utilities" at Patrick AFB, Fla., the reconstruction of a portion of Florida State Road 402 to serve as a new access road to the Missile Test Center. Since no money was appropriated during Fiscal Year 1958 for the construction of off-base access roads, Comptroller Joseph Campbell said the construction of the road resulted in "a violation of the statutes."

TO PAY FOR THE ROAD, urgently needed because of the accelerated ballistic missile program at Patrick, the Air Force will have to seek a retroactive authorization from Congress. Mr. Campbell suggested that in the future the Secretary of Defense should be given a reserve authorization for the emergency construction of access roads to take care of such urgent requirements as existed at Patrick.

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Dr. Frank B. Berry (Health & Medical)
Murray Snyder (Public Affairs)
General Counsel—Robert Dechert

Chairman of the Joint Chiefs of Staff—General Nathan F. Twining, USAF

Army Orders

From page 4—

Reaves, Kelsie L, Wash, DC, to USA Elm OSD, Wash, w/sta Paris, France.

Lt Colonel

Cunningham, Worthy M, College Station, Tex, to USARCAB, (Panama).
Nealon, Arthur J, Wash, DC, to USA Info Sch, Ft Slocum.

Major

To USA Elm MAAG, Vietnam, Saigon
Oestreich, Roy H, Ft Benning.
Burton, David G, Ft Knox.

Captain

Moore, John H, Ft Chaffee, to 2d Bn Cmbt Team, Keflavik, Iceland.
Cayce, Bryce T, Louisville, Ky, to USA Armor Cen, Ft Knox.
DeMent, Russell O (AI), Paris, to Off Stu Co USAINTC, Ft Holabird.
Serafin, John, Ft Chaffee, to Korea.

To USA ADGRU Korea, Yongsan

Reeves, James N, Ft Carson.
Schultz, John H, Ft Benning.

To USARAL

Dray, Gene E, Ft Benning.
From Ft Chaffee:
Davis, Paul M Rowland, Billy L
Johnson, Gordon B Heckelbeck, Edw E

1st Lieutenant

Oehl, George, Ft Benning, to Germany.
Anderson, David L, Ft Benning, to Korea.

To 2d Bn Cmbt Team, Keflavik, Iceland
Snyder, James E, Ft Benning.
Bledsoe, Edward P, Ft Jackson.

To USATC Inf, Ft Dix

From New Cumberland, Pa:
Lincoln, Richard L King, Raymond S
Diaz, Roberto

Maj. Goff Joins 4th Army

Maj. Corles N. Goff, for the past 15 months assigned to the Eighth Army G-4 section in Korea, has assumed similar duties at Fourth Army headquarters, Ft. Sam Houston, Tex.

With his wife, Marilyn, and two sons James, 11, and Patrick, 2, he resides at 430 Blakely Drive, Terrell Heights, San Antonio.

To Hawaii

Lee, William R, Ft Dix.
Holmeu, William P, Ft Knox.

ARMOR—

Lt Colonel

Bobo, William A, Wash, DC, to USA Elm JUSMAG, Thailand, Bangkok.

Captain

Witt, Charles R, Ft Meade, to USA ADGRU (NG) Ft Meade, w/sta Baltimore.
Laley, William L, Ft Devens, to Korea.
Busey, Matthew W, St Albans, WVa, to USARAL.

ARTILLERY—

Colonel

Becker, William A, Monterey, to OUSARMA, Belgrade, Yugoslavia.

Lt Colonel

Johnson, Bertil A, Monterey, Calif, to USA Mis to El Salvador.

Major

Hicks, Earl A, jr, Norfolk, Va, to USA Elm US Taiwan Def Comd/MAAG, Taipei.
Andersen, Gilbert K, Chicago, to Germany.

Captain

Tanner, Herbert R, Carleton, Mich, to 4th Mal Bn 55th Arty, Thule, Greenland.
Whelan, John F, Ft Devens, to US ASA Fld Sta, Asmara, Eritrea.

Klinkbell, Charles E, Monterey, to Germany.

1st Lieutenant

Sammon, Bernard J, (AI) Ft Devens, to 508th US ASA Gp, Yongsan, Korea.

To XVIII Abn Corps, Ft Bragg

From Ft Rucker:
Baker, Ronald L Guentz, Douglas V, jr

To Korea

Leszczynski, Joseph J, Ft Bragg.
Lewis, John C, Ft Benning.
Monroe, John R, Ft Lewis.
Maddox, Alfred E, Ft Riley.
Schroeder, Robert L, Ft George G Meade.

Weall, Robert H, Ft Devens.
Kensett, Charles F, Ft Sheridan.
Burnell, Laurence E, Ft Bliss.

Dismuke, Elvin G, Ft Hood.
Hogle, Albert F, jr, Ft Sill.

Korpai, Eugene S, Ft Sill.
McEnroe, Robert F, Ft Bliss.

Parnell, Roy L, Ft Campbell.
Scott, Billy J, Ft Sill.

Snead, William K, Ft Bliss.
Bearden, Thomas E, Ft Bliss.

Brunkhorst, Charles W, Ft Polk.
Cameron, Donald W, New Britain.

Carlson, Douglas G, Ft Polk.
Corbin, Clarence A, Ft Bliss.

Curran, Kenton W, Ft Bliss.
Fennell, Chalmers L, Ft Hood.

Gosnell, Frank, jr, Ft Hood.
Kline, Wordley J, jr, Ft Carson.

Leach, John A, Orland Park.
Lutes, Robert A, Ft Bliss.



LEAVENWORTH VISITOR. Brigadier B. N. Batra (left), Military Attache to the US from India, confers with Maj. Gen. Lionel C. McGarr, Commandant of the U. S. Army Command and General Staff College and Commanding General of Ft. Leavenworth, Kansas. Brigadier Batra attended the dedication ceremony of the new six million dollar academic building—James Franklin Bell Hall—at the College.

McCarthy, Edward W, jr, Ft Polk.
Gillespie, John T, Ft Lewis.
Marshall, Charles M, Ft Lewis.

To Hawaii

Pollard, Louis M, Ft Sill.
Bulen, William E, Orland Park, Ill.
Crompton, William B, jr, Ft Bragg.

2d Lieutenant

Reibel, John C, Ft Campbell, to Korea.

From Ft Rucker to Station Indicated

Black, Owen, jr, 2d USA Msl Comd, Ft Hood.
Carlson, David R, 1st Inf Div, Ft Riley.
Hughes, Francis A, 101st Abn Div, Ft Campbell.

McFee, William W, 2d Inf Div, Ft Benning.
Vincent, Wendell C, XVIII Abn Corps, Ft Bragg.

To 4th Inf Div, Ft Lewis

From Ft Sill:
Daugherty, M T Pressgrove, C A, jr

From Ft Sill to Station Indicated

Grip, Paul S, 2d Battle Gp 8th Inf 1st Inf Div, Ft Riley.

Hatch, Donald P, 2d Battle Gp 47th Inf, Ft Lewis.

Russ, Oneal D, 2d How Bn 11th Arty, Ft Campbell.

Seward, John W, 1st Battle Gp 5th Inf 1st Inf Div, Ft Riley.

CORPS OF ENGINEERS—

Maj Gen E C Itchner, C of E

Colonel

Jackson, John H, Columbus, to Germany.

Major

Fowler, Clyde E, Columbus, O, to USATTCA USAOSANY, Brooklyn, NY.

Kopf, John B, Ft Campbell, to Germany.
Grisham, Roscoe E, Ft Belvoir, to USA Elm JUSMAG Thailand, Bangkok.

Col. Sorensen Heads Ordnance Division

Col. Leonard C. Sorensen, USA, is the new Chief of the National Industrial Operations Division at the Ordnance Ammunition Command, Joliet, Ill. His division is responsible for the industrial engineering, procurement of components and ammunition from private industry, and the manufacture of explosives and ammunition at government-owned ammunition installations. Colonel Sorensen had been Commanding Officer of the Cincinnati Ordnance District.

Colonel Sorensen and his wife, the former Lillian Stayton of Cincinnati, and their daughter, Linda Sue, 9, will make their home in the Ordnance Ammunition Command Staff House area at Joliet Arsenal, Illinois.

To USA Elm US Taiwan Def Comd/MAAG Taipei

Kuehl, Gregory J, Ft Benjamin Harrison, Ind.
Lyman, William S, Ft Leonard Wood.
Williams, Alton P, Marion, O.

Captain

Gifen, Cliff, Ft Belvoir, to Germany.

To 19th Engr Bn, Ft Meade

Marciniec, Walter F, Pittsburgh, Pa.
Peole, William B, Ft Belvoir.

1st Lieutenant

Engle, Phillip D, Cp Wolters, to Korea.

2d Lieutenant

From Ft Belvoir to Station Indicated
Pletka, Robert E, USATC Engr, Ft Leonard Wood.

Drage, David J, 34th Engr Gp, Ft Ord.
Coburn, Philip G, 95th Engr Bn, Ft Ord.

To 937th Engr Gp, Ft Campbell

From Ft Belvoir:

Derby, Kenneth W Weigle, Weldon K
Fullman, Carl H

To 806th Engr Bn, Ft Rucker

From Ft Belvoir:

To Korea

From Ft Belvoir:
Christopher, Terry M Ivey, Hubert
Gumbert, Robt L McIntyre, Robt T

SIGNAL CORPS—

Lt Gen James D O'Connell, C Sig O

Colonel

Miller, Norbert C, Ft Ritchie, Md, to France.

Major

Welch, Harold E, San Francisco, to USAIS, Ft Benning.

Captain

Havens, Leonard M, Anchorage, Alaska, to USA ROTC Instr Gp, Northeastern Univ, Boston, Mass.

Hemphill, Donald F, Ft Rucker, to USA Elct Pr Gr, Ft Huachuca.

Enoch, John K, Ft Gordon, to Korea.

1st Lieutenant

From Ft Rucker to Station Indicated

Sanders, Frank W, USA Sig Gar, Ft Monmouth.

Creamer, Edmund J, jr, USA Elct PG, Ft Huachuca.

Tobin, Kenneth D, USA Sig Gar, Ft Monmouth.

2d Lieutenant

Armstrong, Raymond L, Ft Rucker, to USA Elct Pr Gr, Ft Huachuca.

McPhee, John C, Ft Monmouth, to Germany.

Lt. Col. Overby Is Lee G-1

Lt. Col. Carl H. Overby is the new G-1 of the Ft. Lee, Va., QM Training Command. He replaces Col. Joseph E. Murray, reassigned to Ft. Lewis, Wash.

Colonel Overby, formerly Post Quartermaster at Lee, is being succeeded by Lt. Col. Walter F. Diesem, formerly Deputy CofS.

ADJUTANT GENERAL'S CORPS—

Maj Gen Robert V Lee, TJAG

Colonel

Pederson, John E, Wash, DC, to Hq USARPAC, Ft Shafter, TH.

Lt Colonel

Raleigh, Edward C, Ft Benjamin Harrison, to Korea.

Major

Callicotte, John G, Ft Benjamin Harrison, to Korea.

Captain

Kemp, Fred O, Chicago, to Japan.

To Korea

From Ft Benjamin Harrison:
Krug, Robt W Brock, Luther A

1st Lieutenant

Doolittle, Lloyd W, Ft Chaffee, to Okinawa.

Reynolds, George P, Ft Sam Houston, to Germany.

2d Lieutenant

Story, Lawrence M, Ft McPherson, to USA Ret Main Sta, Dallas, Tex.

JUDGE ADVOCATE GENERAL'S CORPS—

Maj Gen George W Hickman, jr, TJAG

Captain

Zalonis, John A, Charlottesville, Va, to OTJAG, Wash, DC.

Beesley, Ray D, New Cumberland, Pa, to TJAGSUSA, Charlottesville, Va.

Neinast, William H, Wash, DC, to Germany.

Goodman, William P, Wash, DC, to France.

1st Lieutenant

Kennedy, Robert M, Ft Hood, to Cls Div, OTJAG USA, Ft Holabird.

Miller, William T, jr, Ft Stewart, to Hq Tag Comd, Ft Lee.

Etz, Leonard, New Cumberland, Pa, to Hq and Hq Det USA Gar, Aberdeen Pr Gr.

Todla, William C, Ft Bliss, to USA Gar, Ft Meade.

Goldman, Barton A, Cp Irwin, Calif, to Hq 6th Rgn ARADCOM, Ft Baker.

O'Malley, Philip G, Ft Holabird, to 101st Abn Div, Ft Campbell.

Potts, William M, Ft Eustis, to Hq MDW USA, Wash, DC.

Bowle, Alexander, Cp Irwin, Calif, to USA Terminal Comd, Ft Mason.

Ciranni, Eugene H, Ft Devens, to USDB, Lompoc, Calif.

Cochran, Thomas D, Ft Riley, to Cls Div OTJAG USA, Ft Holabird.

To OTJAG USA, Wash, DC

Fildew, John H, Ft Sheridan.

From Charlottesville, Va:
Carroll, Charles E T Stiles, Robert D
Hagadone, Ronald R Stillman, Jacob H
Manning, Thomas R

From Charlottesville, Va, to Station Indicated

Evans, Thomas N, jr, USARAL.

Adamkewicz, Edward S, jr, Hq 1st Rgn ARADCOM, Ft Totten.

Archibald, William K, Hq TNG Comd, Ft Lee.

Bogatto, Richard P, Hq Fourth USA, Ft Sam Houston.

Comer, Harold L, USA Air Def Cen, Ft Bliss.

Daughtrey, William H, jr, Hq Third USA, Ft McPherson.

Dinneen, John E, Hq USA Gar, Ft Devens.

Ellis, James M, Hq Tng Comd, Ft Eustis.

Herman, Karl J, Hq BAMC, Ft Sam Houston.

Krashes, Harold D, Hq USA Gar, Ft Gordon.

Lawrence, Ernest G, jr, Hq Fourth USA, Ft Sam Houston.

Lelli, Ramon S, Hq First USA, Governors Island.

McBride, Victor G, Cls Div OTJAG USA, Ft Holabird.

Moyers, Hardy R, Hq USA Ord Msl Comd, Redstone Arsenal, Ala.

Neu, Arthur A, Hq MDW USA, Wash, DC.

Pollock, Gerald A, BAMC, Ft Sam Houston.

Ries, Bernard, Hq USATC (Inf), Ft Dix.

Schuenke, David A, Hq USATC (Inf), Ft Dix.

Semeraro, Richard A, Hq and Hq Co TPGM Sch USA, Ft Gordon.

Witham, Peter M, 101st Abn Div, Ft Campbell.

Torbett, Walter D J, USA AAA and Tk Tng Cen, Ft Stewart.

Villano, Michael C, USA Gar, Ft George G Meade.

Wells, Jerry E, Hq USA Gar, Ft Riley.

Willis, William L, Hq USA Gar, Ft Sheridan.

Wolfe, Joseph W, Hq Second USA, Ft George G Meade.

Cravens, Richard J, Hq 5th Rgn ARADCOM, Ft Sheridan.

Dunn, James A, Hq USATC, Ft Leonard Wood.

Fraley, Vance L, 4th Trans Tng Comd, Ft Story.

Gerber, Andrew J, Hq 4th Rgn ARADCOM, Richards-Gebaur AFB.

Homesley, Troy C, jr, Hq Second USA, Ft George G Meade.

Inman, Eldridge R, 2d Armd Div, Ft Hood.

Jorgensen, Arthur W, jr, Hq USA Gar, Ft Sheridan.

Lt. Col. Hill To Korea

Lt. Col. Edward M. Hill, Chief of the Programming and Budget Branch of the G-4 section, Fourth Army headquarters, has left Ft. Sam Houston, Tex., for Korea.

Colonel Hill's wife, Beverly, and son Edward M., jr., will reside in Columbus, Ga.

Army Slates Medical Promotions To Lieutenant Colonel; M/G Ogle Takes Peoria Post, Other Service Medical Notes

The Army will convene selection boards 2 February to consider officers for temporary promotion to the grade of lieutenant colonel on the MC, MSC, ANC and AMSC Promotion Lists.

Primary zones of consideration are as follows, the same for all categories: AUS Promotion Eligibility Date of 31 August 1951 or earlier.

Officers of the MSC, ANC and AMSC promotion lists, not in the primary zones whose promotion eligibility dates are 31 December 1955 or earlier, will be considered under the criteria established by section IV, AR 624-115.

Maj. Murray Lieberman, DC, USA, of Ft. Lewis, Wash., has bowled a 278-232-203-713 total in league competition. His big series followed by just a day his worst of the season—a bedraggled 447. Both the major and his wife, Kay, are enthusiastic bowlers. He carries averages in the high 180's in three leagues and subs in a fourth. She bowls regularly in three leagues and fills in frequently in the Tacoma Women's Major loop. The major opened his 278 game with a 4-6-7 split, followed with 11 strikes in a row and then fired in two more to start the next game.

Col. Robert E. Blount, MC, USA, Consultant in medicine to the Surgeon of

the U. S. Army Europe for the past three years, has returned to Brooke Army Medical Center, Ft. Sam Houston, Tex., to be Chief of the Department of Medicine at Brooke Army Hospital, the position he held prior to the overseas assignment.

Colonel Daniel Sheehan, who retired in December, had been Chief of the Department.

The Surgeon General of the Navy has named three Bureau of Medicine and Surgery doctors headed by **RADM. Edward C. Kenney**, MC, USN, Assistant Chief of the Bureau for Personnel and Professional Operations, to attend the 55th Annual Congress on Medical Education and Licensure in Chicago from 7-10 February. Accompanying Admiral Kenney will be **Capt. Eugene V. Jobe**, MC, USN, Director of the Bureau's Professional Division, and **Capt. Malcolm W. Arnold**, MC, USN, Head, Training Branch, Professional Division.

Lt. Col. Francis Cecil Gunn has been appointed Second Army Chief Nurse at Ft. Meade, Md., after duty with the Army Communications Zone in Europe.

Capt. Alice Roth, Head Nurse of the Officers and Women's Surgical Ward at Brooke Army Hospital, was awarded a

Certificate of Achievement before leaving Ft. Sam Houston, Tex., for new assignment at Ft. Gordon, Ga.

Maj. Gen. Dan C. Ogle, USAF-Ret., former Air Force Surgeon General, will move from Washington, D. C., to Peoria, Ill., where he will take up his new duties as President of the Institute of Physical Medicine and Rehabilitation.

Three Naval Captains last week received certificates from the Graduate School of Medicine of the University of Pennsylvania in Philadelphia, marking completion of the first basic science semester under the 40-year-old school's completely revised curriculum program.

Included in the group to receive certificates were **Capt. Joseph L. Yon**, Chief Surgeon at Camp Lejeune, N. C., Marine Corps Base; **Capt. Donald H. Childs**, Naval Hospital, Philadelphia; and **Capt. Greenville I. Walker, Jr.**, who had served as U. S. Naval Attache in Rio de Janeiro, Brazil, until coming to the Graduate School of Medicine.

Col. Inez Haynes, Chief of the Army Nurse Corps, was a featured speaker at a three-day conference of Sixth Army chief nurses 28-30 January at the Presidio of San Francisco. **Lt. Col. Edna E. Ross** is the Sixth Army Chief Nurse.

Kushnick, Michael G, USA Engr Cen, Ft Belvoir.
McKay, Thomas W, USA Armor Cen, Ft Knox.
Selvey, Ernest C, Jr, Hq Tng Comd, Ft Eustis.
Smith, Norman J, Hq Second USA, Ft George G Meade.
Smith, Robert J, Hq USA Gar, Ft Leavenworth.
Warren, Robert S, Hq USATC and Gar, Ft Ord.
Ishekawa, Richard M, USA Gar, Cp Irwin.
Rosen, Samuel J, USA Armor Cen, Ft Knox.
Edridge, William B, 2d Inf Div, Ft Benning.
Hellerstein, Alvin K, USA Armor Cen, Ft Knox.

To Korea
From Charlottesville, Va:
Arness, Franklin D Bright, Fred, jr
Bower, James P

To Germany
From Charlottesville, Va:
Cole, Thomas G, jr Drucker, Fredric L

QUARTERMASTER CORPS—

Maj Gen Andrew T McNamara
Captain

Pleard, Frederick J, Ft Myer, to Germany.
Paddock, Stiles R, Ft Hood, to Korea.
Strauss, Mack, Chicago, to France.

To USA ADGBU Korea, Yongsan

Ewing, Donald E, Ft Lee.
Prather, William R, Natick, Mass.

1st Lieutenant

Bryden, John M (AS), Ft Devens, to 12th US ASA Fld Sta, Chitose, Hokkaido, Japan.

To Germany

Pointer, Monroe, Ft Benjamin Harrison.
Nicolini, Clement W, Monterey.

From Ft Lee:

Barry, Robert J Preston, Frank J
Hagood, R P, III Robinson, Albert A
Hale, John W Smith, Mark S
Howard, John A Straeb, Robert G
Kalicki, Robert J Weckstein, Louis
Padden, Donald J

FINANCE CORPS—

Maj Gen Paul A Mayo, C of F
1st Lieutenant

Gordon, James C, Ft Benjamin Harrison, to Fin and Accts Off USA, Wash, DC, w/sta USA Elct Pr Gr, Ft Huachuca.
McCormack, Harold J, Cp Gary, to Fin and Accts Off USA, Wash, DC, w/sta USA Elct Pr Gr, Ft Huachuca.

MEDICAL SERVICES—

Maj Gen Silas B Hays, SG
Medical Corps
Captain

Thorpe, William J, West Point, to Stu Det Hq Fourth USA, Ft Sam Houston.
Gallehugh, Keith W, Tacoma, to Irwin AH, Ft Riley.
Yut, Joseph P, Wash, DC, to USAH, Ft Meade.
LaNeve, Ralph J, Fairmont, W Va, to 4th Inf Div, Ft Lewis.
Edgerton, John C, Ft Sam Houston, to Germany.
Sparrow, Nathaniel L, Ft Sam Houston, to France.

Dental Corps—

Maj Gen James M Epperly, Chief
Captain
Marohn, Norman W, Albuquerque, N Mex, to USA Elm Prov MAAG, Korea, Seoul.

Veterinary Corps—

Brig Gen Elmer W Young, Chief
1st Lieutenant
Palmiter, Anthony, Ft Sam Houston, to Hq USA Gar, Ft McPherson.

Col. Griffin Heads ROA Chapter At Ft. Eustis

Col. Jerry A. Griffin, 48th Truck Group Command, is the new president of the Ft. Eustis, Va., chapter of the Reserve Officers Association. He replaces Lt. Col. Walter L. Kelly, Executive Officer, Headquarters Troops.

Other officers are 1st vice president, Lt. Col. Hilmer O. E. Johnson, Comp-troller, Transportation School; 2d Vice President, Maj. Harris H. Cathey, Executive Officer, 159th Boat Battalion and 3d Vice President, Maj. Robert L. Locke, Post G-3 division.

The new chapter Secretary-Treasurer is CWO Thomas Chema, Adjutant, 159th Boat Battalion. The executive committee is made up of Col. William C. Rogers, Inspector General, and Lt. Col. William K. Dougan, Transportation Research and Engineering Command.

Army Medical Specialist Corps—

Col Ruth A Robinson, Chief
1st Lieutenant

Lynde, Patricia A, Tacoma, to Okinawa.
Hall, Wilma F, Ft Belvoir, to Germany.

Army Nurse Corps—

Col Inez Haynes, Chief
2d Lieutenant
Sissung, Mary J, Wash, DC, to USAH, Ft Devens.

ORDNANCE CORPS—

Maj Gen John H Hinrichs, C of Ord
Lt Colonel

Casale, Carlo C, Boston, to 801st Abn Bn, Ft Campbell.
Carrie, Hector, Jr, Ft Campbell, to Korea.

Major

Lake, Lisle B, Aberdeen Pr Gr, to Hq and Hq Co USA Gar, Sandia Base Fld Comd AFSWP, Sandia Base, Albuquerque.
McColgan, August T, Wash, DC, to USA Gar, Aberdeen Pr Gr.
Oates, William H, Little Rock, Ark, to Hq USA Ord Ammo Comd, Joliet, Ill.
Leech, Harry D, Sandia Base, N Mex, to USA Elm MAAG Vietnam, Saigon.

Captain

Grutze, Fred S, Jr, Columbus, to USA Elm MAAG, Vietnam, Saigon.
Wilson, Wilbur A, College Station, Tex, to Korea.
Smith, James D, Sandia Base, N Mex, to Stu Det USA Ord Sch, Aberdeen Pr Gr.

1st Lieutenant

Anderson, Benjamin H, Jr, Yuma, Ariz, to Det USA Tng Gp, Oakland, Calif.
LeBlanc, Dalex J, Ft Rucker, to 81st Trans Co, Ft Riley.
Whitney, Lawrence W, Ft Huachuca, to Korea.
Williams, Roy L, Jr, Ft Sill, to USA Ord Arsenal Picatinny, Dover.

CHEMICAL CORPS—

Maj Gen Marshall Stubbs, C Cml O
Colonel

Ludecke, Fred W, Army Cml Cen, Md, to Dy Sta Dugway, Utah (remains asg USA CBR Wpn Sch, Dugway Pr Gr).

CHAPLAINS CORPS—

Maj Gen Frank A Tobey, C of C
Lt Colonel

To Germany
Drake, Dayton D, San Francisco.
Saunders, Edward J, Ft Slocum.

Major

To Korea
McNulty, John A, Ft Myer.
Martin, Owen C, Ft Sam Houston.

Captain

Doran, Thomas A, Denver, to Hawaii.

To Korea

Francasso, Anthony M, Ft Chaffee.
McGuire, Ambrose E, Ft Hood.

1st Lieutenant

Garner, Calvin H, Ft Polk, to Germany.

To Korea

Blustein, Allan M, Ft Hood.
Cox, Billy H, Ft Chaffee.
Heintz, Daniel W, Ft Jackson.
Tupy, Richard R, Jr, Ft Chaffee.

TRANSPORTATION CORPS—

Maj Gen Frank S Besson, Jr, C of T
Colonel

Davidson, Cecil H, Ft Bragg, to USARCARIB (Panama).

Lt Colonel

Albert, George E, McGuire, to Korea.

Major

Zacharias, George A (AI), Wash, DC, to 508th US ASA Yongsan, Korea.

Captain

Erwin, John T, Ft Knox, to USA Elm JUSMAG, Thailand, Bangkok.
Fitzgerald, Albert E, Ft Benning, to USA Elm US Taiwan Def Comd/MAAG, Taipei.
Sweet, Frederick J, Ft Eustis, to France.
Luther, Lee I, Ft Eustis, to USARAL.
Cressey, Robert N, St Louis, to USARCARIB (Panama).
Kupsinel, Herbert R, Ft Eustis, to USA Trans Terminal Det, Tripoli, Libya.

To Korea

Gowan, James F, New Orleans.
Walker, Joe K, Jr, Ft Story.

1st Lieutenant

Molden, Daniel E, Jr, Ft Rucker, to 3d Trans Co, Ft Belvoir.

2d Lieutenant

Cargile, James T, Ft Eustis, to 531st Trans Co, Ft Riley.
Short, Robert E, Ft Rucker, to USA Elct Pr Gr, Ft Huachuca.
Stewart, James T, Ft Rucker, to Korea.

MILITARY POLICE CORPS—

Maj Gen Haydon L Boatner, PMG
Lt Colonel

Merry, Lyndon W, New Cumberland, Pa, to Hq First USA, Governors Is, NY.

Captain

From New Cumberland, Pa, to Station Indicated

Haskins, Harold A, USA Gar, Ft Jay.
Junkins, Walter F, 716th MP Bn, Ft Dix.
Singleton, Wilbert F, 1102d MP Det Boston Army Base, Boston.
Thompson, James B, USA Gar, Ft Hayes, Colo.

WOMEN'S ARMY CORPS—

Col Mary L Milligan, Director
Major

McLellan, Dorothy L, San Francisco, to Hq Fifth USA, Chicago.

CHIEF WARRANT OFFICERS—

Frazier, W-2 Richard D, Redstone Arsenal, Ala, to Hq USA Gar, Ft Wayne, Ind.
Weaver, W-2 Dixon N, Redstone Arsenal, Ala, to 1st SAM Spt Det, Ft Worth Gen Depot, Ft Worth.

Borden, W-3 Ralph L, Ft Belvoir, to OC of SA, Wash, DC.

Craig, W-2 Sidney C, Oklahoma City, to USARCARIB (Panama).

Mow, W-2 Kul Pin Mow, Ft Monroe, to Korea.

Lemaster, W-3 Fred P, San Francisco, to Hq Sixth Region USA Air Def Comd, 40th Arty Brig, Ft Baker.

Skelton, W-2 Thomas W, Chicago, to USA Air Def Cen, Ft Bliss.

Bosch, W-2 Henry M, Governors Is, to USARAL.

Kennedy, W-4 Allen B, Ft Hood, to Okinawa.

Burnett, W-2 Frank L, Ft Bliss, to Japan.

Pitts, W-2 Thomas W, Ft Bragg, to 508th US ASA Gp, Yongsan, Korea.

To 4th Msl Bn 55th Arty, Thule, Greenland

Brown, W-2 Harvey W, Jr, Lumberton, NJ.

Fetgatter, W-2 Haney C, Ft Monroe.

Hollins, W-2 Edward P, Livingston, NJ.

Manning, W-2 Francis E, Jr, Holmdel, NJ.

Phillips, W-2 John T, Pittsburgh, Pa.

Spicer, W-2 Richard L, Selfridge AFB.

To Germany

Oscarson, W-2 Harold O, Ft Ord.

Canada, W-2 John R, Ft Benjamin Harrison.

Holcombe, W-2 William T, Ft Sam Houston.

Havens, W-2 Richard M, Ft Dix.

Marine, W-2 Michael, Aberdeen Pr Gr, Md.

Evans, W-2 George F, Ft Sam Houston.

McNelly, W-4 Bertram J, Ft Chaffee, Ark.

Rowley, W-4 Tony W, Ft Bliss, Tex.

Beatty, W-3 John G, Columbus, Ohio.

Anderson, W-2 Gustave, Jr, Ft Bliss, Tex.

Kinehan, W-2 Vincent W, Ft Devens, Mass.

Minnitte, W-2 Samuel F, Aberdeen Pr Gr.

Specht, W-2 Francis X, Ft Riley, Kans.

Ballard, W-3 James M, Ft Polk, La.

To France

Roberts, W-4 Norman E, Ft McPherson, Ga.

Dickinson, W-3 Wellington C, Wash, DC.

Knoop, W-3 Frederick A, Ft Lewis.

Dooley, W-2 John D, Ft Lee.

Fossa, W-2 Aristide B, Ft Wadsworth.

WARRANT OFFICERS—

Geschwandtner, Joseph W, 2d USA GM Shop, Aberdeen Pr Gr.

Jones, William H, Hq USA Gar, Lordstown

Mil Res, Lordstown, Okla, w/sta Cincinnati Fld Maint Shop, Cincinnati.

Chisnell, Robert L, Ft Bliss, to 4th Msl Bn

55th Arty, Thule, Greenland.

Smith, Bully J, Ft Ord, to Korea.

Overla, Donald W, Detroit, Mich, to 1st GM

Brig, Ft Bliss.

Bowles, Ralph P, Killeen Base, Tex, to USA

Ord Dep Pueblo, Colo.

RETIRED—

Colonel

Schenken, Carlton G, JAGC.

Lt Colonel

Northrup, Harry E, NG, pd (70%).

Lyman, Frank G, AGC, pd (80%).

Captain

Clark, Harold H, pd (50%) fr temp disab

ret list.

Retired Upon Application

Colonel

Burgin, Howard N, DC.

—Continued on next page

Army Orders

From preceding page—

Lt Colonel

Cox, Richard F, CE.

Major

Turner, Jack H, Inf Pingree, John, QMC
Dowd, John T, Inf

Captain

Cutler, Irving, Inf Gustin, Dale O, MSC
White, Fred R, Inf
Davies, Stanley J, Armor, as Maj.

Chief Warrant Officer

Hardy, W-3 George C, AGC.
Horton, W-3 James C, AGC.
Mull, W-3 Leroy E, AGC.
Perley, W-2 Allan H, AGC.
Paul, W-3 Lemuel R, MSC.

OFFICERS TO TEMP DISAB RET LIST—

DeFrain, Maj Ray L (disch as Sgt).
Herlong, Capt Robert P, MI (60%).
Armstrong, Capt Fred W, CE (40%).
Ferguson, 1st Lt Robert M, Arty (80%).
Novinski, 2d Lt Clement J (30%) Mil records corrected to show temp disab.

RESIGNED—

Curry, Maj Galen L, Arty.
Hittle, Capt Leslie L, Jr, Arty.
Phair, 1st Lt John M, Inf.

PROMOTED IN RA—

To Major

W/DR 19 Jan '59: Levy, Charles W, JAGC.
Amis, Gilbert H, TC, 20 Jan '59.

W/DR 17 Jan '59: Stephens, N M, Inf Burke, John H, TC

W/DR 18 Jan '59: Davis, R P, TC Reynolds, C A, Jr, TC

To Captain

W/DR as indicated: Honeycutt, Weldon F, Inf, 17 Jan '59.
Perkins, Thomas C, Jr, QMC, 18 Jan '59.
Chase, Marvin K, Jr, Arty, 19 Jan '59.

W/DR 16 Jan '59: Miller, H B, OrdC Ladner, T G, Arty
Harragones, A J, Martin, G W, Arty
MPC Munroe, R S, MPC

To 1st Lieutenant

W/DR 16 Jan '59: Howell, W H, QMC Watford, J H, FC
W/DR 20 Jan '59: McMillan, T C, QMC Messer, H D, Arm

RA PROMOTIONS CONFIRMED—

To Colonel

Anderson, T C, QMC Orsino, G A, OrdC
Fuller, W H G, Inf Rogers, T D, CE
Goodhand, O G, Arty Ward, N P, 3d, Inf
Hayes, T H, Inf Winn, J R, Arty
Honeycutt, R E, Arty Chandler, F H, Inf
Jackson, W F, Arm Haynes, I, ANC
McKee, R L, Arty

To Major

Brubeck, D L, CE Pierce, J T, 3d, Arm
Cardinell, R H, Inf Pritchard, R E, ANC
Crawford, R J, TC Roller, T A, TC
Crosby, G D, Inf Ross, W E, Arm
Curlington, R R, SigC Soll, D A, Arm
Ellis, E H, CE Wickensheimer, V M,
Fisher, P M, Arm ANC
Landis, H M, ANC Winkler, H E, ANC
Baber, R L, Jr, Arty Jones, O M, ANC
Davis, F B, Arm Whitlock, C T, OrdC
Elliot, J N, CmlC Williams, J O, MSC
Gaylord, T N, ANC
Mallory, J W, TC

To Captain

Angel, C R, MSC Patch, C E, Jr, MSC
Bateman, S J, Jr, Hoppe, R R, Arm
Arty Morris, M V, AMSC
Bradford, D C, Jr, Riggs, L M, ANC
MSC Prince, J R, Jr, Arty
Davis, F J, SigC Stromberg, L R, MC

To 1st Lieutenant

Axup, W A, OrdC Nelson, T C, SigC
Cini, A A, Arty Hahn, J D, MSC
Deardorff, R E, Jr, SigC Holbrook, W A, Inf
SigC Isbell, D, Inf
Gatti, M A, Arty Luthult, G H, Inf
Gay, F T, 3d, CE Malooley, R S, Arty
Mayson, P B, Jr, Inf Nichols, S R, Jr, Inf
McGar, R D, Arty Register, B F, Jr, OrdC
Michael, P A, WAC
Miller, C J, Jr, Inf Schmidt, R C H, Arty
Neal, J W, CE Wintz, E K, CE
Arnold, T W, QMC Oyler, L E, Jr, Arty
Bean, R H, TC Pierce, F W, Jr, Arm
Bell, C H, Arty Posz, J D, Arm
Bradshaw, D L, OrdC Rice, R C, Arty
Bruno, V J, Arty Schott, R S, Inf
Chapin, G E, Jr, MSC Sheehan, S A, Arty
Clark, R D, Inf Smith, G N, CE
Dorsett, H F, MSC Taylor, F C, Inf
Edmiston, C H, Jr, Thomas, B J, Arty
TC Wall, K D, Arty
Foster, R G, Jr, AGC Wickware, A W, Arm
Frye, R E, Jr, SigC Williamson, R L, FC
Goad, R E, Arty Winnicki, P W, Arty
McLaughlin, T J, OrdC

M/G Bain Heads RCA Defense Office In D. C.; Other Service Veterans Get New Positions

Maj. Gen. Walter G. Bain, USAFR, has been named Vice President, Washington Office, Defense Electronics Products, Radio Corporation of America, by A. L. Malcarney, Executive Vice President, RCA Defense Electronics Products. General Bain will have responsibility for maintaining relations with defense agencies, assisting in major defense contract negotiations and directing the activities of the Defense Electronic Products unit's Washington office. Since 1954, he has been Vice President and General Manager of Republic Aviation Corporation.

During WW II, General Bain was assigned to Wright Field as a production engineering officer and technical executive to the Commanding General. Later, he was in the Procurement Division of the Air Force, serving at various times as Chief of the Quality Control Section and Chief of the Inspection Section.

In January 1951 he was recalled to active duty as Chief, Quality Control Division in the Directorate, Procurement and Industrial Planning at Air Material Command. In August 1952 he was named Chief of the Procurement Division, and in April 1953 Director of Procurement and Production. He was released from active duty in August 1953 with the rank of Major General.

William O. Packer, a WWII Navy veteran, has been named Defense Products Representative for the Nuclear Products—Erco division of ACF Industries, Conan J. Doyle, Division Defense Products Marketing Manager, said. Mr. Packer will be responsible for flight simulation and training equipment contracts with prime contractors and defense agencies. Erco is currently producing flight simulators for such Navy and Air Force planes as the S2F-3 anti-submarine warfare plane, the F-105 fighter-bomber, and the KC-135 jet tanker.

TEMPORARY PROMOTIONS—

To Colonel

Barnhill, G L, OrdC Richie, E B, Inf
Dana, R A, Inf Surdyk, E E, Arty
Kitchen, W W, AGC

To Lt Colonel

Goodwin, G F, Arty

To 1st Lieutenant

Frazelle, J H, QMC Harris, B D, Arm
James, J H, Arty Rutherford, R L
Bainbridge, R C, ANC
QMC

To CWO-4

Ambrose, J R, OrdC Hale, C J, CE
Anderson, M T, AGC Hubbard, H W, MI
Belderson, L E, AGC Thomas, F J, JAGC
Chambers, R L, AGC Whitt, D T, sr, AGC

To CWO-3

Waters, A, Arty Bregan, J F, Arty

HONORABLY DISCHARGED—

Webb, 1st Lt Paul T, Jr, Armor.

BRANCH ASSIGNMENTS—

Johnson, 1st Lt David S, fr Armor to Sig C.
Levine, 1st Lt Seymour, fr Inf to Sig C.
Orr, 1st Lt Charles R, fr Inf to CE.
Semmens, Capt James R, fr Inf to CE.

DESIGNATED ARMY AVIATORS—

Faithful, 1st Lt William N, Armor.

Senior Army Aviators:

Levic, Maj Sigmond C, TC.
Ankney, Capt Paul, Inf.
Easley, Capt Charles L, Inf.
Horwitz, Capt Milton, TC.
Tomme, Capt Henry H, Inf.
Young, Capt Arnold R, Inf.
Rettinger, 1st Lt Richard F, TC.
Graves, 1st Lt James R, Armor, NG.
Pertault, 1st Lt Javy J, Inf, NG.
Raney, Capt Robert A, CE, NG.
Carpenter, Capt John W, Arty, NG.

ADVANCED ON RET LIST—

Putman, CWO-4 Richard G, to Maj.
Whisler, M/Sgt Nelo I, to 1st Lt.

EM RET AND TRF TO USAR—

Fussell, M/Sgt John D; Kirby, Sfc Edward E; Rolph, Sp5 Jack M; Baithis, M/Sgt Robert C; Willis, M/Sgt Roy T; Greene, Sgt Chester A; Bowers, M/Sgt John E; Burgess, M/Sgt William R; Morgan, M/Sgt Calvin P; Spielman, M/Sgt Hayes S; Baker, M/Sgt Robert D.

ENLISTED MEN RETIRED—

Whitman, M/Sgt Roger W, as Col; Chel-

quist, M/Sgt Clifford R, as Capt; Meekins, M/Sgt Edmund L, as Lt Col; Fitzpatrick, M/Sgt Clyde, as CWO-2; Garten, Sfc Gerald W, as Col.

Boles, M/Sgt Everett S; Lang, Cpl Alexander R; Majors, Sfc Edward F; Citty, Sgt Leon C; Kanitz, Sfc Frank H; Leavy, Sfc James M; Martinez-Rivera, Pfc Victor; Mepplink, Pvt Claude J; Padgett, Sgt William J; Scroggins, Cpl George W.

Wattson, Pfc Theodore N; Duncan, Cpl Billy D; Baeck, Cpl Milton C; Dodge, Pfc Royall M; Holm, M/Sgt Olum R; Marshall, M/Sgt Albert; Sherman, Sfc Earle W, Jr; Latson, Pvt James; McCain, Cpl Earl L; Denton, Sfc Edward; Phillips, Pvt Irwin W.

Former Navy Officer Handles AF Contracts

A WW II Navy radar officer, B. H. Wolf has been appointed Air Force Contract Manager for Stavid Engineering, Plainfield, N. J., reporting to Director of Contracts and Sales H. J. Bradfield.

Since joining Stavid in 1949, Mr. Wolf has directed various development programs.

RESIGNATIONS DROP

The Air Force had only 209 Regular officer resignations during the last fiscal year, compared with 263 in fiscal '57 and 295 in fiscal '56.

A major reason for the decline was action on a new military pay plan.

During fiscal '58, the Air Force had 17 resignations from officers over 36 years of age; 104 in the 29-36 year group; 86 between 25 and 28, and 2 who were under 25.

By ranks, there were two colonel resignations, 6 lieutenant colonels, 43 majors, 72 captains and 86 first lieutenants.

USAF Orders

From page 9—

Busker, Sally A, Selfridge AFB, to 752d USAFH, USAFE, APO 125, NY.

RETIRED—

Perkins, Charles L Hollidge, Melvin S
Workman, William G

Colonel

Vander Pyl, E C Champlain, (Maj) D
Lewis, Earl W D, as Lt Col
Armbruster, W N McNeese, Kenneth M
Cooper, Horace N

Major

Kulesza, S M, as Gnagnarelli, J J
Lt Col Lauderdale, Robert S
Hughes, William

Captain

Malski, Teddy

Chief Warrant Officer

Nader, W-4 Roy W.
Emery, W-3 Adrian C, as Maj.
Ace, W-2 Elwood L.

OFFICERS TO TEMP DISAB RET LIST—

Given, Lt Col Edwin H.
Wilcoxon, Capt Rollin H.
Glynn, 1st Lt Edward N.

OFFICERS FR TEMP DISAB RET LIST—

Mack, Lt Col Robert S, & ret.

RESIGNED—

Badgett, Capt (1st Lt) Charles S, 3d.
Davis, 1st Lt Daryl M.

PERMANENT PROMOTIONS—

To CWO-3

Houghtby, Raymond C, w/DR 14 Jan 59.
Redmond, Lawrence K, w/DR 16 Jan 59.
Zboray, Donald E, w/DR 19 Jan 59.

REGAF PROMOTIONS CONFIRMED—

To Lt Colonel

Baker, Norman N Miller, Charles L
Kane, Harold E Templeton, H A
Wilson, Robert A H

Major

Anderson, Delane E Wenrich, George L
Hilton, Garland B, Jr Shefuo, R M, (NC)
Sautters, Clyde W

HONORABLY DISCHARGED—

Mursch, Capt (1st Lt) George A.

AIRMEN ADVANCED ON RET LIST—

Higgins, S/Sgt John G, to T/Sgt.

AIRMEN TRF TO AFRES & ASG STANDBY STATUS—

Arnold, M/Sgt James M; Bacon, M/Sgt James W; Dean, M/Sgt William J; Green, M/Sgt Vincent; Jenkins, M/Sgt Woodrow W; Lindsey, M/Sgt Kenneth; Matthis, M/Sgt Lester V; Patterson, M/Sgt Russell W; Pullum, M/Sgt Frank E; Unger, M/Sgt J W; Gauthier, T/Sgt Leon C; Rakowski, M/Sgt Bruno F; Ryan, M/Sgt Theodore J; Stacy, M/Sgt Earl E; Suggs, M/Sgt Colon; Tekeli, M/Sgt Ocie N; Woodbridge, M/Sgt A W; Eason, T/Sgt John T; Lorusso, T/Sgt Frank S; McCready, T/Sgt William C.

Shetter, T/Sgt Wade A; Thompson, T/Sgt Harry H; Yarrington, S/Sgt Raymond F; Heldt, T/Sgt Edward L; Hines, M/Sgt Leonard F; Neely, M/Sgt Hester L; Hiles, T/Sgt Andrew R.

Abbott, M/Sgt Stephen J; Blaine, M/Sgt Henry L; Crumbley, M/Sgt Clifford C; Davison, M/Sgt Thomas R; Grace, M/Sgt Robert N; Gray, M/Sgt Carroll M; Jersey, M/Sgt Robert F; Parks, M/Sgt Elmer L; Powell, M/Sgt Fred D; Schone, M/Sgt John G; Tucker, M/Sgt James E; Hunt, T/Sgt Francis G; Bradford, S/Sgt Jessie M.

Bucklew, M/Sgt Harold S; Delph, M/Sgt Gordon W; Doss, M/Sgt Percy E; Fountain, M/Sgt Rufus C; Franks, M/Sgt Robert G; Harrison, M/Sgt Verlin L; Johnson, M/Sgt Harris E; Kitchings, M/Sgt Ralph; Knowlton, M/Sgt William P; Long, M/Sgt Howard W; Marclano, M/Sgt Lino; Nixon, M/Sgt Willie E, sr; Owen, M/Sgt Coy H; Panter, M/Sgt John H; Patterson, M/Sgt Thomas L; Brown, M/Sgt Herman A; Bumgardner, M/Sgt Robert B; Cushman, M/Sgt Harvey; Hall, M/Sgt George K; Pennington, M/Sgt Herbert W; Skora, M/Sgt Walter F; Cross, M/Sgt Claude L; Costner, M/Sgt Lester W; Malone, T/Sgt William H; McGuire, T/Sgt Mack D.

Akins, M/Sgt Truett E; Briggs, M/Sgt Lloyd G; Cooper, M/Sgt Ray R; Cronenberg, M/Sgt Harry W; Eldridge, M/Sgt George; Fahey, M/Sgt Bernard A; Foster, M/Sgt Chalmers R; Foster, M/Sgt Julius A; Hill, M/Sgt Cecil R; Hulan, M/Sgt Lloyd E; Moore, M/Sgt Richard A; Morse, M/Sgt Melville C; Powell, M/Sgt Lonnie E; Banks, T/Sgt Charles J; Dodson, T/Sgt Worley; Jacobs, S/Sgt James H; Malone, S/Sgt Willis G; Morgan, S/Sgt Sherben L; Conway, S/Sgt William F.

Balogh, M/Sgt Alexander, Jr; Blevins, M/Sgt Lester W; Gross, M/Sgt George C, Jr; Habenicht, M/Sgt Guenther B; Hobson, M/Sgt Wayman C; Mimmis, M/Sgt Vernon; O'Brien, M/Sgt Robert F; Orioli, M/Sgt Emilio L; Pinckney, M/Sgt Edmond T, Jr; Rankin, M/Sgt Burl E; Sees, M/Sgt Henry O; Wiehn, M/Sgt Wilfred D; Carter, T/Sgt James F, Jr; Chesser, T/Sgt Robert S; Grisham, T/Sgt William C; Hall, T/Sgt John J; Faulkner, S/Sgt William S.

Deskins, M/Sgt Lundy F; Hinderliter, M/Sgt John A; Kendall, M/Sgt Harold E; McCulston, M/Sgt Carlos F; Mills, M/Sgt Jack W; Owens, M/Sgt James K; Painter, M/Sgt Francis B; Taylor, M/Sgt Henry W; Berger, T/Sgt Willard C; Hawkins, T/Sgt Charles C.

AIRMEN RETIRED—
Ryan, M/Sgt Maurice K; Baber, M/Sgt Willard D; Jones, A/2C Joseph W; Marshall, A/1C Lynn E; Keithley, M/Sgt Marcus L; Humbarger, M/Sgt Walter R; Coleman, A/1C William E, Jr; Knox, A/1C Leroy H; Jensen, T/Sgt Norman R.

Koblank, T/Sgt Franklyn C; Chapman, A/2C Douglas R; Farrington, A/2C Grant C; Walker, M/Sgt Earl W; Lee, A/1C Owen R; Gailhouse, M/Sgt Cecil B, as Lt Col; Herron, S/Sgt Duane; Lalancet, M/Sgt Cyril; Losee, S/Sgt Fred C; Barrington, S/Sgt James T; Bascombe, A/2C James; Mills, A/1C Lewis T; Smith, A/1C Claudius G, as S/Sgt.
Coplen, M/Sgt Keith N; Palmer, M/Sgt Henry A; Parker, M/Sgt James C; Pearson, M/Sgt Robert S; Mashburn, T/Sgt Jesse W; Oakes, A/2C Frank R, Jr; Coley, A/3C John L, Jr.
Brumfield, A/1C Roy W, as S/Sgt; Whitney, A/1C William F, as S/Sgt; White, M/Sgt R L, as Maj; Hoch, M/Sgt Norman D; Hutchison, S/Sgt Stanley R; Gross, A/2C Rudolph D; McFadyen, A/2C Robert A; Wood, A/2C Dewey F; Callahan, A/3C Thomas W; Thornton, A/3C Samuel L.
Beehner, M/Sgt Gilbert E; Danley, M/Sgt Robert H; Steltz, M/Sgt R J; Harter, T/Sgt M M; McCulloch, A/2C David W; Lukka, M/Sgt Michael J; Smith, M/Sgt Harvey G; Scott, S/Sgt William E; Suckel, M/Sgt Jesse R; Allison, M/Sgt Willie H; Clark, A/3C Gary A.

Navy Orders

From page 7—

May, Romulus L. (MC), NavHosp St Albans Lt; to BuMed.
Mott, Carleton E., DCofS JStaff CincCarib; to ICAF WashDC.
Nicholas, Nicholas J., CO USS Sierra; to CofS and Aide ComCaribSeaFron.
Oldfield, James C., NavShipRep Fac Yokosuka; to Staff ComNavAirLant.
Packard, Alden C., DirAntiSubWarfareLab NavDevCen Johnsville; to DepDir BuRsch and Dev of The FedAvAgency WashDC.
Roessler, Bernhard O. (CEC), PWO Staff CNavAirBaseTra NAS Pnscla; to DepDist PWO 9thND.
Roulett, John P., Jr. (CEC), OIC AreaPWO Ofc Marianas Guam; to Staff ComServ ForceLant.
Smith, Francis K. (MC), AvnMedAcceleration Lab NavDevCen Johnsville; to Dir of Cen. Taylor, William C., BuOrd; to CO NOP Forest Park.
Teel, Richard A., OpNav; to JStaff USCinc Europe.
Wadsworth, Victor F., ChNavSec JUSMAG Thailand Bangkok; to CO USS Seminole.
White, James W., Staff CincNEM; to COMSTSGulfSubArea/NCSO Office Norfolk.
Woodville, Jonathan L. W., Jr., CO USS Salamone; to ChStaffOfc ComFleTraGru Guantanamo Bay.

COMMANDER

Bishop, Jack T. (SC), NEM; to SPC MECH.
Chippendale, James E., NYNAVSHIPYD; to NAVMINDEFAB PANAMA CITY.
Flanagan, George, CO AEWGTULANT; to OPNAV.
Horswell, Vance E., FLETACSUPPRON 24; to PATRON 11.
Lenox, Wilbert W. (SC), NSC PEARL; to GENTSOSUPOFC PHILA.
March, Warren T., OIC NAVCOMMUNYK; to 3ND.
Paseur, John L., BUSHIPS; to NAVSTA KODIAK.
Stinemat, Daniel H., CO ATKRON 55; to NAVAIRPAC.
Wallace, Johnny L., NAVFORJAPAN; to CO NAVHOSINGACTY YOKOHAMA.
Bookhamer, Robert H., OPNAV; to CO UTRON 10.
Breen, Owen J., Jr. (SC), NAVWARCOL NPT DUINS; to ASO PHILA.
Brinn, Rufus T., BUAER; to USS TARAWA.
Bureau, Arthur L., NASPWPNFAC KIRTLAND AFB; to NEM.
Carter, Robert R., ROYALNAVSTAFFCOL GREENWICH DUINS; to NEM.
Christine, Willis W., Jr., USTAIWANDEF COM; to BUPERS TEM.
Corrick, James A., Jr. (SC), ICAF WASHDC DUINS; to GENSTOSUPOFC PHILA.
Filson, James E., OFC OF BAR AEROJET GENCORP AZUSA; to OFC OF NAVINS ORD SAME PLANT.
Ford, James A., SUBPAC; to NAVMEDU TRIPLER ARHOSP OAHU TRMT.
Garrett, Ned, BAR AEROJET GENCORP AZUSA; to NAVINSORD SAME PLANT.
Gleen, Everett M., USS LOS ANGELES; to COMDESDIV 232.
Hood, Benjamin E., RESIDENT IN CHARGE AEROJET GENCORP SACRAMENTO; to RESIDENT INSORD SAME CORP.
Howard, Leo T., USS CHARA; to CO USS BRUSH.

RESEARCH —beyond polio



...ARTHRITIS, BIRTH DEFECTS,
VIRUS DISEASES

JOIN THE MARCH OF DIMES

FORWARD GREATER VICTORIES

Three Service Chaplains To New Duties

Chaplain (Col.) Robert M. Homiston, Fourth Army chaplain since 1956, leaves Ft. Sam Houston, Tex., for duty as Chaplain, U. S. Army Alaska.

During the Korean conflict he served as Chaplain, 45th Infantry Division. He has been awarded the Bronze Star, Commendation Ribbon with Metal Pendant, and the Sygman Rhee Presidential Citation.

Chaplain (Lt. Col.) John A. Hayes, a priest from Rome, N. Y., has arrived at Tyndall AFB, Fla., from England to be 73d Air Division Chaplain.

Chaplain (Lt. Col.) John B. Youngs has reported to the Army Antiaircraft Artillery and Tank Training Center, Ft. Stewart, Ga., after completing a 13

King, Benjamin B., Jr., AIRSHIPAEWRON ONE; to CO SAME RON.
Leedy, Ralph G. (SC), ICAF WASHDC DUINS; to OPNAV.
Oesterich, Lawrence C. (SC), BUSANDA; to SUBRON 14.
Penfold, Jack R., OPNAV; to THE JSTAFF OFC JCS WASHDC.
Rasmussen, Jonathan Q., NAS CORPC; to BUAER.
Robbins, Robert W., CO NAS PNCLA; to OFC OF INSMAT DAL.
Thomas, Robert B., JSTAFF CINCLANT; to USS LOS ANGELES.
Twining, Geraldine F., SERVPAC; to BU PERS.
Wellman, Alonzo H., Jr., USS BOXER; to SHAPE.
Flynn, William E., NAS MPLS; to NAS NRLNS.
Haskell, Henry L., NAVWARCOL NPT; to IND.
Huxford, Richard W., FITRON 111; to NATESTCEN PAXRIV.
Kesseling, Waverly D. (SC), USS LEYTE; to ASO PHILA.
Peterson, Robert F., CO PATRON NINE; to OPNAV.
Anderson, Elmer D., CO PATRON 49; to BUAER.
Ashcroft, Jerome L., Jr., USS OLMSTED; to CO USS OLMSTED.
Blakely, Harry J., USS TARAWA; to NAF NAPLES.
Cooper, James S., NATRACOM NAS PNCLA; to NABATRACOM NAS PNCLA.
Lange, Robert V., USS YOSEMITE; to DES LANT.
McCarroll, Arthur O., NAVCOMMSTA PEARL; to CO USS JAMES E. KYES.
Michaelis, Frederick H., NAVWARCOL NPT DUINS; to CO USS PARICUTIN.
O'Connor, Leslie L. (ChC), NAVHOSP YOKOSUKA; to NAAS PORT ISABEL.
Pendergraft, Vernon L., HELTRAGRU ELISONFLD; to NAS PNCLA.
Romaine, Robert R., NAS PNCLA; to NAV TRACOM NAS PNCLA.
Salsig, Edgar B., CO FITRON 213; to BU ORD.
Thro, John B., DESLANT; to ALUSNA AND ALUSNA FOR AIR BONN.

LEUTENANT COMMANDER

Baer, Joseph, Jr., NAVCOMMSTA SFRAN; to CARDIV ONE.
Britt, Harvey R., AEWRON 15; to NAVCIC SCOL NAS GYLYNCO BRUNSWICK.
Dunn, Robert H. P. (CEC), ASTROICC BU DOCKSCONTR NAS JAX; to NAVHOSINGACTY YOKOHAMA.
Fisher, James R., 2d, OPNAV; to BUPERS.
Harrell, Esther C. (NC), NAVHOSP OAK; to NAVHOSP SDIEGO.
Lehn, Donald A., NAF NAPLES; to FLETAC SUPPRON 24 NAPLES DET.
Neiss, Norman J., NAS MPLS; to USNAV PGSCOL MONTEREY DUINS.
Pugh, Thomas B., NAVAIRSHIPTRAGRU NAS GYLYNCO DUINS; to AIRSHIPAEWRON ONE.
Raymond, John E., USS ANTIETAM; to AEWRON 13.
Satterfield, Charles R., MSTSPACAREA; to 3ND.
Sullenger, Charles R., OPNAV; to SERVPAC.
Blom, Leonard W., ASTNAVINSORD AEROJET GENCORP SACRAMENTO; to OFC OF RESIDENT INSORD SAME CORP.
Brady, Joseph B., Jr., NAVSCOL EOD NAV PROPELLANT PLANT INDIAN HEAD; to CO USS ENHANCE.
Butler, John E., HATRON 16; to BUAER.
Carter, Jack L., USNAVPGSCOL MONTEREY DUINS; to BUORD.
Chapman, John A., 2d (SC), USS FORRESTAL; to ONM NAVDEPT.
Collins, Francis L., LTPHOTRON 61; to FAIRHAWAII.
Fletcher, Gene C., USS KENNETH M. WILLET; to DESRON 36.
Grause, Jerome E., USS KIRKPATRICK; to CO USS NIMBLE.
Hill, Roland D. (CEC), NAS NRLNS; to NAS ATUGI.
Jensen, Samuel B., HATRON 16; to NABA TRACOM NAS PNCLA.
Johnson, Mortimer C., NUCLEARWPNTC LANT NAVB NORVA; to USS NEW.
Knoeckel, Jewel A. (NC), NAVHOSP CORPC; to NAVHOSP PORTSMOUTH VA.
Lopartz, Kathryn E., NAVHOSP ST ALBANS LI; to NAVHOSP CHELSEA.
Lowell, John E., OPNAV; to USS PARSONS.
Miles, Ross E., JR., AEWRON FOUR; to NATECHTC NAS JAX.
Mills, Warren B., NAS CUBI PT; to NAS OAK.

—Continued on next page

Army Navy Air Force Journal 17
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months' tour with the Army test group on Eniwetok in the Marshall Islands.

Chaplain Youngs has completed 123 months of overseas service, including assignments in Europe, the Philippines and Korea.

He and his wife, Amelia, and children, Martha Alice, 12½, and John B., Jr., 5, live in quarters at Stewart.

SCHOOL AND CAMP DIRECTORY

The Schools and Camps listed below are effectively equipped to care for the educational and recreational needs of the children of members of the services and this Directory is recognized as an authentic and reliable aid to service parents in solving the problem of child education. For details as to the Schools listed in this Directory address them directly or communicate with the Army Navy Air Force Journal Dept. of Education, 1710 Conn. Ave., N. W., Washington 9, D. C.

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Invite requests for catalogue and information. In writing kindly mention The Journal.

Navy Orders

From preceding page—

Nelson, Warren O, OFC OF BAR AEROJET GENCORP AZUSA; to OFC OF NAVINS ORD Same Corp.
Phillips, Ruby I (NC), NAVHOSP MFS; to NAVHOSP PORTSMOUTH VA.
Prevost, Alfred L, OFC OF RESIDENT IN CHARGE AEROJET GENCORP SACRAMENTO; to OFC OF RESIDENT INSORD Same Corp.
Saladin, Mahlen G (SC), USS DIXIE; to PHIBTRAPAC.
Sinclair, George T, jr, SERVAPAC; to OPNAV.
Smith, Lewis O, CO USS DIODON; to OP NAV.
Stockwell, Merlin J, ASTRESIDENT IN CHARGE AEROJET GENCORP SACRAMENTO; to OFC OF RESIDENT INSORD Same Corp.
Swanson, Eugene S (CHC), MARCORCRUIT DEPT; to USS LOS ANGELES.
Thurman, Horace E, jr (SC), USS RANGER; to ASO PHILA.
Wilson, James C, CO USS TABBERER; to OIC USS TABBERER.
Clymer, Roy E, jr, NAVSCOLCOM NAVSTA TI SFRAN; to NAVSEC MAAG TAIWAN TSOYING.
Dunton, Stanley W, HATRON 15; to CARDIV TWO.
Le Forge, William L, 11ND DIST TEM; to MSTSO LBEACH.
Lewis, Floyd E, USS MOUNT BAKER; to NAVHOSP OAK TRMT.
Montgomery, Cedric A (SC), NAS ATSUGI; to NAVSTA TI SFRAN.
Moran, William F, 3ND DIST TEM; to NAVRECSA NAVB PHILA.
Adams, John L (SC), ICEDEFOR; to NAVSTA ASTORIA.
Aucclair, Henry O, FAIRQUONSET TEM; to NAS QUONPT.
Bowman, Harlan L (CEC), NAS ATSUGI; to NAVHOUSINGACTY YOKOHAMA.
Brooks, Charles L, FITRON 121; to NAAS KINGSVILLE.
Haney, William E, USS FORRESTAL; to NAVAIRLANT TEM.
Layton, Stephen L, BUAER; to FLEWEAFAC ARGENTIA.
Rippa, Peter, ATKRON 215; to CO Same Ron.
Chokas, Nicholas P, DAVID W TAYLOR MODEL BASIN CARDEROCK DUINS; to OPNAV.
Dolan, William R, jr, NAVCENT; to USS ROOKS.
Fischer, David W, OFC OF INDMAN 9ND; to ESO GLAKES.
Fisher, Dale W, CRUDIV FOUR; to NABA TRACOM NAS PNCLA.
Forson, Roy E, ATKRON 83; to NSA FORT GEORGE G MEADE.
Hinkelman, John W, jr, AIRWAYS MODERNIZATIONBD WASHDC; to FEDAV AGENCY WASHDC.
Holfield, Arthur W, jr (SC), USS SARATOGA; to BUORD.
Larson, Leslie O (SC), NAVWARCOL NPT DUINS; to ONM NAVDEPT.
McHenry, Wendell, jr (SC), NAVWARCOL NPT DUINS; to USS LITTLE ROCK.
Mills, Ernest J, FASRON 51; to NABATRA COM NAS PNCLA.
Plunkett, Robert D, DESRON 11 TEM; to USS HAMNER.
Taylor, Warren, AIRWAYS MODERNIZATIONBD WASHDC; to FEDAV AGENCY WASHDC.
Winnette, Charles R, NUCLEARWPNTEC LANT NAVY NORVA; to NOF NAVACTY PORT LYAUTEY KENITRA.
Asman, George H, TRAPAC; to USS TINGEY.
Barnes, William H, USS CAPE ESPERANCE; to 12ND.
Baumberger, Harold D, CO USS MELVIN R NAWMAN; to CO USS EUGENE A GREENE.
Ciulla, Edward, FITRON 52; to BUAER.
Herbert, Frank C, NAVFORJAPAN; to USS BRAINE.
Lucas, Burke D, jr, AIRTRANSRON THREE; to NAS ATLA.
Mattison, John A, USS MASSEY; to NAV EXAMCEN NTC GLAKES.
Neiman, Jack, jr, CRULANT; to AFSC NORVA DUINS.
Peel, Jeanne F (NC), NAVHOSP PTSMH; to NAS ROTA.
Person, Irving J, AIRDEVRON SIX; to UTRON THREE.
Post, Paul J, 12ND TEM; to MSTSPAC AREA.
Tomlinson, Clifford S, OFC OF BAGR CEN DIST WRIGHT-PATTERSON AFB; to USS BON HOMME RICHARD.
Walbridge, Clarke B, NAS CUBI PT; to BUAER.
Wilkes, Jules M, PHIBRON FIVE; to NAVRECSA NAVSTA SDIEGO TEM.
Boyd, Carl J, OPNAV; to USS HANSON.
Campomenosi, Louis J, jr, MAAG CAMBODIA PHNOM PEHN; to MINLANT.
Ferguson, James R, jr, OFC OF INSMAT NAVINDRESHIPYD PORT NEWARK; to USS GENERAL G M RANDALL.
Geary, Joseph R, USS RANGER; to NAVHOSP OAK TRMT.

New Version Of Supersonic Chance Vought Crusader Will Join The Fleet Next Year

A new version of the versatile Chance Vought "Crusader" jet series, designated F8U-2N, will join the Fleet in 1960.

The latest Crusader will be equipped with a Chance Vought-developed autopilot to aid Navy and Marine flyers.

Push-button controls perform many of the pilot's routine tasks such as holding altitude, holding a heading, selecting a new course, or orbiting over a pre-selected point.

The F8U-2N all-weather, day fighter, will be faster than the F8U-2. The F8U-2 is powered by the Pratt and Whitney J-57 P-16 engine; the F8U-2N will be equipped with a new jet engine, designated J-57 P-20.

The F8U-2N also will have improved radar, up-to-date interior and exterior lighting systems and redesigned instru-

mentation.

Externally, the plane resembles the F8U-2, but will have a number of interior and material changes. It will be capable of launching new types of missiles under development, in addition to carrying the heat-seeking "Sidewinder."

The all-weather jet—the Navy will receive 38—represents further development of the F8U-1, the world's fastest operational Navy fighter. The F8U-1 was first to set a Thompson Trophy speed record in excess of 1,000 miles per hour and the first to streak across the continent faster than the speed of sound.

Both the new all-weather jet and the F8U-2 differ in appearance from the first version. The newer models have ventral fins mounted under the tail sections to give increased stability.

2D LIEUTENANT

Maxwell, John A, MCRD S Diego, to USS Princeton.

From MCS, Quant, to Station Indicated

Meinecke, David N M, US NavGM Scol, Pomona, Calif.

Halbleib, John A, ForTrps FMFPac.

Naugle, Donald G, MCB 29 Palms.

Wescott, William F, ForTrps FMFPac.

To 1st Mar Div

From MCS, Quant:

Brill, Newton G

Duplessie, A T, jr

Trenski, Daniel F

Wall, Melvin N

Geipi, Gerald T

Bowman, Donald G

Doughty, Clifford C

Pierce, Jerry S

Rivera, Jules C

Keane, Michael M, jr

West, Robert L

Bergen, Daniel F

Booth, Francis D

Bratton, Richard C

Cross, Robert L

Dubus, Andre J, jr

Evlieth, Warren R

Freilburger, Carl P

Golden, Glen

Hafner, Bron D

Hewitt, Robert D

Higgs, James R

Imbus, Robert J, jr

Kwak, Richard A

Leyden, Michael R

Logan, Andrew S

McCrary, John M

Parks, Hugh L, III

Robinson, Carson N

Rountree, Lee C

Sharp, Ronald C

Shaw, James B

Springall, W H, jr

Vollbrecht, C E, jr

Warnicke, Edward A

Weissend, Dion E

West, James F, III

Williams, Stewart E

Houtchens, John J

Lamberth, Paul D

Landgraf, John E

Love, Jon R

Milkowski, Antoni H

Sooey, Daniel K

O'Hayre, John J, jr

Smaldone, Ronald A

Chappell, Clifford L

Oelrich, R V, jr

Thibault, Dale R

Werner, Robert G

Ebanks, Wm J, jr

Necco, A D, jr

Stehr, Paul W

Vasko, George E

Wakefield, Robert H

Capt. Suddath Shifts To BRAVO Cofs Slot

Capt. Thomas H. Suddath has relieved Capt. John W. Reed, as Cofs and Aide to RAdm. Robert J. Stroh, Commander Carrier Division Fourteen and Commander Antisubmarine Defense Group BRAVO.

Captain Suddath completed a year as Commander Destroyer Division 362, which had been one of the units of Task Group ALFA and which last summer participated in the Lebanon operation. He and his wife, the former Eileen Hammond of Washington, D. C., and four children have resided at 101 46th Street, Virginia Beach, Va.

Captain Reed has orders taking him to the undersea Warfare Division of the Office of the Chief of Naval Operations. He was married in August 1940 to Miss Barbara Dyer, the daughter of Maj, and Mrs. E. L. Dyer, of Washington, D. C. The Reeds have lived in North Kingston, R. I., with their four children.

USMC Standings

The officers listed below are the last Regulars, as of 1 January, who have been promoted or for whom vacancies existed under provisions of the Officer Personnel Act of 1947:

GRADE	PERMANENT	TEMPORARY
MajGen	Marion L. Dawson	W. M. Greene, jr.
BGen (Unr.)	August Larson	Herman Nickerson, jr.
BGen (BDO)	William P. Battell	Paul R. Tyler
Col	Paul T. Johnston	Arthur C. Lowell
LtCol (Unr.)	Robert J. Fairfield	Richard M. Giddens
LtCol (LDO)	William G. Reid	
Maj (Unr.)	John E. Quay	H. B. Kelly, jr.
Maj (LDO)	William Follmer	
Capt (Unr.)	Louis Schwandt	Roger W. Bader
Capt (LDO)	Joseph E. Mullen, jr.	

To 2d Mar Div

From MCS, Quant:

Collins, Patrick G

Garant, Phyllis R

Isherwood, G B

Lewis, Sherman R, jr

Roberson, Harold C

Van Tassel, Gerry L

Alexander, John R

Barney, Dale G

Bennett, Malcolm M

Bowles, Ray W

Brock, David A

Cass, Donald T

Cooper, Samuel W

English, Philip C

Flynn, Donald W

Harris, John E

Knight, James R

Labin, Lewis E

Little, John C, III

Melton, Thomas G

Meyer, Richard E

Morgan, Richard W

Nacrelli, Henry T

Patrick, Roger H

Payne, F M, jr

Quigley, James J

Rohde, John A

Sinnott, Gregory C

Sutherland, A A, jr

Tubach, Paul B

White, Gary M

Wile, William A

Woll, David C

Wuenschel, John E

Kreickler, Graham H

Marshall, Orville E

Ramsay, Charles J

Mohler, Richard E

Rozman, John J

Fitzgerald, Charles R

Campanella, F B

Middleton, Harry J

To 3d Mar Div

From MCS, Quant:

Bohr, Harper L, jr

Yenerall, Grant L

Denithorne, Wm J

Mayers, Kenneth E

Carr, Billy H

Comer, Donald R

Hennessey, Robert H

Horton, Thomas R

Kammeler, F A

Komar, John T

Reilly, William

Shannahan, John K

Bach, William S

Bowles, John

Buerk, Gerald S

Cullen, William J

Quinlan, William J

Wundram, William H

Burns, Rex S

Chachere, Douglas J

Marvel, Richard P

Tucker, Jerry T

To 1st MAW

From MCS, Quant:

Brittan, Maynard M

Cullen, Robert F

Eckert, Dennis M

Harwood, Albert E

Marks, James A

Coleman, David A

Seward, Earl E

Fry, Duane E

Lindgren, Dean F

To 2d MAW

From MCS, Quant:

Bennett, Joseph B, jr

Flannery, Martin R

Lucatuorto, Frank E

Bergen, James R

Cascarina, Alfred C

Cowley, Everett L

Drew, Leroy G

Haley, Ronald A

Kaufman, Alan V

Kennedy, Michael L

McIntire, David J

Merryman, John C

Macnish, James M

Owens, Harold M

Sammon, Austin D

To 3d MAW

Scott, Peter W, 1st MAW.

From MCS, Quant:

Cooper, Henry D

Hoffman, Lawrence C

Maley, Fredric W

Wares, Dennis A

Green, John M, jr

Simons, Robert R

Stephens, Eulus T

Uiles, Robert J

Masin, Richard H

Hayward, B N, jr

Arkison, Robert A

Cullen, Robert J

Douville, Richard J

Ewart, James M

Hanley, John J

Holder, Maurice A

McCamey, A R, jr

To MCB, CamLej

From MCS, Quant:

Streett, John K

Abshire, Ronald M

Bratcher, Glenn D

Fuchs, Lawrence M

Mitts, Calvin S

Starck, Philip T

Tiffert, Mathias V

To ForTrps FMFLant

From MCS, Quant:

Baker, Charles W

Dillen, Thomas S

Feld, Charles W, jr

Joyce, Hugh E

Mackin, Patrick M

Nourse, LaVerne E

 Polyak, George R || Simpson, Fred D, jr | Stone, Michael E |
Thames, Samuel E	Thames, Samuel E
Berbaum, Gene E	Cassalia, Alan B
Damon, Gordon G	Hatton, George A, jr
Riley, George E	Gleason, Michael N
Abate, Pasquale	Felix, William D
Hawley, T, 3d	Rodwell, Roy O
Sotsky, George R	Tilton, Richard C
Bates, B H, jr	Broering, Arthur J
Honse, James A	Vaughn, Ronald F
West, James H, jr	

To 1st MarBrig

From MCS, Quant:

Burger, Joseph C, jr

VanAntwerp, W M, jr

Lakes, Jack B

Mullin, Daniel G, jr

Obye, John R

Thomas, Willard Y

Hanthorn, Russell L

Lee, William F

Maguire, Robert J

O'Brien, Joseph J

Reynolds, Richard C

Sutton, Robert A

Breidenstein, J W

Horne, George R, 2d

Magee, James T, jr

Orsburn, Lyndell M

Tutterow, H W, jr

O'Bryan, Nell P

Ryder, James K

Hurley, Robert B

Toelle, Alan D

Magilligan, L P

Rushing, Clifton L, jr

Sallis, John E

Telford, Jacques W

CHIEF WARRANT OFFICER

Miller, Edward H, 2d MAW, to MCAS, CherPt.

Dreywor, W-2 Joseph A, MCAS, CherPt, to MadNATTC, Mfs.

WARRANT OFFICER

Crawford, Roy H, Albuquerque, N Mex, to 2d MAW.

Hadley, John A, 1st Mar Div, to HqMC.

RETIRED

Costello, Lt Col William H, to temp disab ret list.

Barker, Capt Hunter C.

U. S. COAST GUARD

Secretary of the Treasury—Robert B. Anderson
Commandant—Vice Adm. Alfred C. Richmond

PRESIDENT EISENHOWER has appointed 29 Regular and eight Reserve officers to temporary higher ranks, including 17 to captain, five to commander, seven to lieutenant commander and one to lieutenant (jg).

Names and effective dates of rank of those advanced are (officers whose names are preceded by an asterisk are Reservists):

To Captain

19 Jan.—Fred F. Nichols.
21 Jan.—Theodore F. Knoll.
1 Feb.—Frank M. McCabe, Harold I. Durbin, Ellis S. Gordon, Myron W. Caskey, Forrest A. Tinsler, Wayne L. Goff, Ronald M. Freeman, Joseph A. Cicciolla, Ralph S. Feola, Howard W. Schleiter, Richard H. Fairman, Clarence N. Daniel, Harold D. Selestad, Joseph W. Nabb, Jr., and Merton Hatfield.

To Commander

19 Jan.—Franklin A. Colburn.
21 Jan.—Charles E. MacDowell.
23 Jan.—Elmer P. Mathison.
1 Feb.—Warren C. Mitchell and Henry A. Campbell, Jr.

To Lieutenant Commander

The officers listed below all have dates of rank retroactive to 1 July 1958.
19 Jan.—Dudley C. Goodwin, Jr.
21 Jan.—*Katherine M. Gannon.
23 Jan.—*James I. Sigman.
1 Feb.—*Edward R. Memler, *Paul S. Smith and *Robert Livingstone.
4 Feb.—*Richard J. Walsh.

To Lieutenant

1 Jan.—Howard Janke.
19 Jan.—Fleming C. Walker.
21 Jan.—*John W. Duenzi.
23 Jan.—Norman A. Noon.
1 Feb.—Harry W. Perdue, Bill M. Aldridge and *Donnell K. Watkins.

To Lieutenant (jg)

28 Dec. 58—Richard N. Westcott.

WIN WARRANTS

In addition, 23 chief warrants and warrants were given temporary promotions to the next higher pay-grades with dates of rank shown below:

To CWO-4

2 Feb.—Christy R. Mathewson.

To CWO-3

1 Feb.—Edgar W. Thomas, Stanley J. Salabar, David D. McCormick, Sterling Fulcher, Byron A. Barr and Marion O. Rubert.
12 Feb.—William I. Janicke and John A. Dearden.

To CWO-2

1 Feb.—Robert L. Hatfield, William W. Muessel, Asa M. Jones, Wasey S. Hayes, Euclid L. Wade, Clark A. Johnson, Eugene W. Darcy, James E. Butler, Joseph F. Cody, Dorrie L. Steele, Eugene R. Lockhart, Ivan J. Anderson and Richard A. Krueger.

WIN PERMANENT RANK

President Eisenhower has nominated 218 Regular Coast Guard officers for permanent rank, including 15 captains, 32 commanders, 70 lieutenant commanders, 95 lieutenants and six lieutenants (jg).

They are:

Captain

Broach, Claude H.
Kerr, Evor S, Jr.
Bakutis, Walter S.
Carlson, Edgar V.
Brunner, Loren E.
Columbus, Charles E.
Sutter, William L.
Evans, Gilbert R.

Commander

Estey, Roland H, Jr.
Roberts, Arthur L.
Lague, Louis L.
Harmon, Freeman H.
Waters, James C.
Smith, Stanley L.
Curwen, Walter, Jr.
Alger, David M.
Carlson, Arnold E.
Glasgow, Gene R.
Graham, Allen H.
Samsbury, Lemuel C.
MacWhinney, T M.
Rice, Stanley H.
Harris, Roderick L.
Dawson, Ople L.

Lieutenant Commander

Britt, Richard H.
Langenbeck, K H.
Johnson, Robert D.
Henderson, Robert F.
Peak, Paul R, Jr.
Woolfolk, V N, Jr.
Lipsey, Elmer M.

Hancock, W L, Jr.
Werner, Adrian F.
Vennel, Woodrow W.
Schumacher, G F.
Tighe, Charles
Baxter, Richard
Weed, Oscar D.

Hodgman, James A.
Phillips, Robert C.
McCullough, Albert J.
Thorsson, Wesley M.
Branson, Peter S.
Smith, Harrison B.
Dorsey, John M.
Lutz, Paul A.
Rabalus, Theodore C.
Easter, Clarence R.
Dilcher, Harley E.
Barnett, Frank
Shrode, Marion G, Jr.
Thometz, G F, Jr.
Fontaine Arthur A.
Hermes, F W, Jr.
Maher, James T.
Hempton, Gordon F.
Warren, George A.
Boswell, William H.
Randle, Vance K, Jr.
Ratti, Ricardo A.
Wagner, George W.
Fehrenbacher, J J.
Parks, R G, Jr.
Durfee, James H.
Arlander, Richard P.
Boardman, Robert C.

Lieutenant

Nixon, Andrew F.
Stewart, Forrest E.
Maki, William A.
Savary, Donald L, Jr.
Vogeler, William K.
Reaume, Donald H.
Brock, Harold R.
Jones, Glenn D.
Drinkwater, G H.
Jahnsen, Oscar J, Jr.
Spinella, William J.
Donaldson, R G.
Derr, William D.
Morrison, Arthur G.
Rouse, John T.
Metz, David E.
Donnelly, Bruce N.
Meeker, James R.
Lessing, Frederick J.
Sawyer, Sherman G.
Macri, Joseph A.
MacGarra, Richard J.
Castle, Edgar S.
Sode, William T.
Riley, Donald J.
McKenna, T F, Jr.
Hodges, Richard D.
McKibben, Ferney M.
Reynolds, Arnold R.
Vaughn, Sidney B, Jr.
Delaney, Eugene A.
White, Roderick M.
Fleishell, James L.
Adams, Robert K.
DeWolf, Clifford F.
Grover, Royal E, Jr.
Dick, William G.
Clingan, T A, Jr.
Hayes, Harry J.
Rose, Allan B.
Juechter, C F, Jr.
Smith, Jack L.
Roberts, Rudy.
Feigleson, H A, Jr.
Fuehsel, John C.
Waggett, Warren W.
Donohoe, Leo V.
Lonsdale, Adrian L.

Lieutenant (jg)

Sheaffer, B R, Jr.
Yancey, K L, Jr.
Millardt, Charles A.

ASSIGNMENT CHANGES

Commander

Masters, Charles E, Jr, YARD (Duty) to Group, Balto (Duty).
Rasmussen, Ernest S, MIO, L Beach (Duty) to MIO, San Pedro Detach. (Duty).

Lieutenant Commander

Edwards, Bruce H, CASTLE ROCK (Duty) to ACUSHNET (XO).
Miller, Franklin J, ACUSHNET (XO) to Academy (TEMINS/MM Indoc) thence MIO, NY (Duty).
Schafran, Walter C, MIO, L Beach (Duty) to MIO, San Pedro Detach. (Duty).

Lieutenant

Durfee, Robert W, ABSECON (EO) to HQ (ENE).
Hanson, Robert J, CGD14 (RCC) to IRIS (XO).
Jacobsen, Patrick M, Base, Portsmouth (EO) to HQ (ENE).

Lieutenant (jg)

Campbell, Donald T, ABSECON (Engr Duty) to EO.
DeCARTERET, John E, PONTCHARTRAIN (Engr Duty) to MINNETONKA (Engr Duty).
Flynn, Francis J, YAMACRAW (XO) to COTP, Boston, amended to CGD1 (RCC).
Hanson, Harlan D, TANEY (Duty) to WPB-95310 (CO).

Murphy, William E.
McCann, John D.
Dolber, Sumner R.
Clizbe, Garth D.
Johansen, Julian E.
Pharris, L A, Jr.
Davison, Harold L.
Austin, John M.
Hall, Clarence S, Jr.
Knight, Leonard J, Jr.
Poulter, Enoch A.
Thuma, Jack S.
Jensen, James S.
Gonyeau, Joseph N.
Schafran, Walter C.
Roden, William G.
Hansen, Sidney F.
Weber, Joseph M.
Merritt, Fred T.
Nesmith, James E.
Pope, Robert R.
Flanagan, Albert E.
Childers, Earl S.
Hynes, Thomas J.
Fenlon, William G.
Hopper, Louis, Jr.
Tooley, John H.
Decker, Gerard R.

Lieutenant

Carbonette, Alva L.
Seufert, Robert A.
Meaux, Berry L.
Parker, Harold W.
Mihlbauer, John P.
Hobby, C G, Jr.
Otto, Lawrence J.
Bannister, P M, Jr.
Dowling, John C.
Alvey, Walter B.
Webster, William L.
O'Connell, John M, Jr.
Venzeke, Norman C.
Beebe-Center, John G.
Kralne, Gilbert L.
Russell, Hubert E.
Glass, Charles J.
Morse, Richard M.
Marsh, James P.
Stabile, Benedict L.
Nodell, William R.
Fletcher, Robert E.
Holmgren, Horace G.
Thompson, Claude R.
Wood, Raymond H.
Guthrie, John C, Jr.
Stanciliff, Robert C.
Blashop, Daniel S.
Lyle, Robert G.
Buttermore, Jack E.
Fernald, Norman E.
Billingslea, B V.
Wald, Leon Y.
Emory, Nelson G.
Bonawitz, Calvin F.
Moats, Louis.
Sibley, Ralph W, Jr.
Larner, David, Jr.
Simonds, Richard K.
Dawley, Joseph P.
Wentworth, Leigh A.
Gates, John E.
Ruebens, Martin J.
Mercier, Robert F.
Hall, Gordon D.
Sullins, Robert L.
Knight, James C.

Ordnance Board Surveys Arsenals: Seeks Answers For 1959-70 Period

ABERDEEN PROVING GROUND, MARYLAND

THE Army's Ordnance Board has been given a challenging assignment by its president, Maj. Gen. John H. Hinrichs, Chief of Ordnance.

He has assigned the Board, whose Deputy President is Col. J. Fred Thorlin, the mission of surveying Army Ordnance arsenals and depots as part of a comprehensive study of "in-house technical resources" for the period through 1970.

It is anticipated the Ordnance Board staff will make a preliminary report on the survey at a meeting in March to be held at the Frankford Arsenal in Philadelphia.

Established as a major "deliberative agency" of the Chief of Ordnance, the Board has accomplished a series of complex studies, including the famed Project 170 after WW II.

This investigation disclosed that 15% of the parts issued to fighting forces would repair 85% of military vehicles. The study resulted in a sharp

reduction during the Korean Conflict in spare parts procurement and distribution.

Organized 4 July 1942, the Board has an authorized strength of 14 officers. Actual strength during January was 11, headed by Colonel Thorlin.

The Board's work is centered in two main divisions, Combat Developments, which is the Ordnance Corps' contact with Continental Army Command for combat developments, headed by Lt. Col. Paul H. Krauss, and the Special Projects Division, under Col. O. G. Kreiser.

Col. John B. Deane also serves with the Special Projects Division, as do Lt. Col. W. W. Downes, Maj. J. T. Peterson, and Maj. R. F. Hatch.

The Combat Developments Division includes Lt. Col. K. E. Nelson, Lt. Col. S. E. Purnell, and Maj. J. C. Raaen, Jr.

Lt. Col. J. T. Smyrl is the Board's liaison officer with the Combat Development Experimentation Center at Ft. Ord, Calif.

Whatever Its Varied 1959 Missions, Aberdeen Still A Proving Ground

ABERDEEN PROVING GROUND, MARYLAND

(THE JOURNAL issue of 17 January, highlighting the missile and space work being done by the Ballistic Research Laboratories, under Col. James P. Hamill, at the Aberdeen Proving Ground, whose Commanding General is Maj. Gen. H. N. Toftoy, noted there is current talk about changing the name of the historic Ordnance center. The point was made that Aberdeen today is much more than a Proving Ground, but it is certainly that too.)

Secretary of the Army Wilber M. Brucker, testifying 22 January before the Senate Armed Services Committee, commented in a survey of weapons progress that "we also are working on an improved mortar."

The Secretary said nothing more about the "improved mortar," which undoubtedly is the widely discussed Davy Crockett atomic mortar.

The Secretary also spoke of progress on a "more powerful tank—the XM-60," and reported that the T-113 lightweight armored personnel carrier will be released for production "in the immediate future."

The Secretary's progress report has a special impact here at Proving Ground, where the Development and Proof Services is responsible for all tests on all Ordnance equipment, except guided missiles, aerial drones and large caliber rockets.

Development and Proof Services, with a strength of about 1300 civilians and 150 military officers and men, is an independent evaluation agency for the Chief of Ordnance.

At any given time, Development and Proof Services is conducting thousands of different tests on some 500 Ordnance

items. These range from a new kind of mine to testing of missile components, such as nose cone fragmentation.

In addition to its work for the Chief of Ordnance, Development and Proof Services runs scores of tests for the Air Force, Navy, and Marines.

In addition to the highly specialized facilities at Aberdeen, which include everything from a fragmentation pit to a 2448-foot instrumented ballistic track for simulated free flight and terminal effects testing of rockets and missiles, Development and Proof Services maintains detachments at Yuma, Ariz., and Ft. Churchill, Canada.

The mission of these field units is to test Ordnance equipment in hot and cold climates.

FAST COUNT HELPS "TALL TOM"

A new \$800,000 electronic data processing system—first of its kind—has been purchased by Hoffman Laboratories Division, Hoffman Electronics Corporation, Los Angeles from the ElectroData Division, Burroughs Corporation, Pasadena, Calif.

The giant computer, called the Burroughs 220, will be used in the "Tall Tom" Project, being developed for the Air Research and Development Command by a team of eight companies headed by Hoffman. It will be installed initially at Stanford Research Institute, Palo Alto, Calif., one of the team members.

Announcement of the purchase was made jointly by President James D. McLean, of Hoffman Laboratories, and Burroughs Vice President James R. Bradburn, in charge of the ElectroData Division.

The "Tall Tom" program calls for development of an electronic sub-system. The Burroughs 220 is a digital data processing system with full magnetic core memory. Basic arithmetic speeds of the system are over 480,000 decision-making operations per minute. Up to 600 million characters of information can be filed electronically in the system and become available in seconds for automatic data processing.

Hinson, Gerald C, CHEROKEE (Duty) to CGD5 (p).
Johnson, Robert A, BIBB (Engr Trng to Line).
Kaufman, Paul T, MACKINAC (Engr Trng to Line).
McClellan, Ronald A, ABSECON (Engr Trng) to CHEROKEE (Line).
Retych, Edmund A, CHAUTAUQUA (Duty) to CGD14 (RCC).

Smith, Delmar F, CHEROKEE (EO) to Base, Portsmouth (EO).
Smith, Norman R, COTP, Seattle (Duty) to CGD13 (RCC).
Trece, James R, KLAMATH (Duty) to CGD13 (RCC) amended to COTP, Seattle (Duty).

Ensign

Barr, Luther "L," HALF MOON (Engr Duty) to CHEROKEE (EO).

General Benson Reports On Dramatic Decade Of Progress In Space Medicine

From page 11—

weight, pressure, and vibration. In space man will, in effect, become "weightless." He must depend solely on his photoreceptors, or eyes, for orientation with his environment. Spacemen may react to this in various ways, and it must be considered in the design of the cabin's navigational instruments.

Dr. Heinz Haber began work on this phenomenon shortly after his arrival at the School. In 1950 he and his brother, Fritz, published a paper called "Possible Methods of Producing the Gravity-Free State for Medical Research," which laid a sound theoretical basis for practical zerogravity work. They described a method of flying a fast jet within the atmosphere on a parabolic arc resembling the trajectory of a rocket or an artillery shell. For a number of seconds during such a flight, the craft and its occupants would experience zerogravity and become weightless.

Flights in a T-33 jet aircraft were begun in 1954 by Dr. Siegfried J. Gerathewohl. Zerogravity was achieved for 15-20 seconds in the initial flights. Later, an F-94C all weather interceptor was procured and periods of weightlessness lasting from 45-50 seconds were experienced. Well over four thousand of these parabolic flight maneuvers have been flown at Randolph, and we now have a good idea of the human reactions to these short periods of weightlessness. The effects of zerogravity were readily overcome by the majority of subjects after a few flights. There is no indication of general disturbances in the autonomic nervous system which controls respiration and circulation. Adaptation to a gravity-free environment seems a possibility.

School scientists will continue to fly these ballistic trajectories, using F-100 type aircraft in which periods of weightlessness can be extended. Later we hope to participate in the scientific data collecting from the X-15 flights. The X-15 is capable of ballistic patterns of considerably longer duration.

RADIATION, METEORS, AND COSMIC RAYS. The extent and nature of the hazards from particular radiations and higher energy nuclear

particles in certain areas in space is another unknown which remains to be studied. The School has dealt extensively with the effects of radiation from power and propulsion sources. This program can be logically extended to the fundamental studies of the effects of cosmic radiation.

Cabin leaks from collision with meteors, although believed to be remote, are a possibility and would cause immediate loss of cabin pressure. Dr. Fritz Haber and Dr. Hans G. Clamann carried out experiments on the physics and engineering of rapid decompression and on the physical process of explosive decompression.

PLANETARY EXPLORATION. The ultimate goal of space operations is planetary exploration. With this in view, Dr. Strughold began very early to study the possibilities of an inhabitable environment and the presence of indigenous life on other planetary bodies. He has done comparative studies of the chemistry of the various plane-

tary atmospheres as to their distance from the sun and their suitability for supporting life, taking into account their temperature and light and the presence of liquid water, oxygen, and carbon dioxide, nitrogen, and hydrogen.

In 1953 Dr. Strughold published a book entitled "The Green and Red Planet," describing his concept of the possibility of life on Mars. He has also published several papers dealing with the planetary system.

In 1956 a study was initiated to determine whether certain bacteria found in the soil of desert or wasteland areas here on the earth could survive under conditions closely resembling those on the planet Mars. It was found that these organisms, after being subjected to alternating temperatures of 70 degrees F. and -35 degrees F., allowed only a trace of water, and deprived of oxygen, not only survived but managed to reproduce and develop strains still more hardy. This work has been expanded to include higher life forms, such as lichens, algae, and moss.

Forty-seven scientific publications by SAM space scientists have appeared in the literature since 1949. Other milestones in the history of space medicine are the meetings and symposia devoted to space topics. The School has sponsored two International Symposia on the "Physics and Medicine of the Upper Atmosphere and Space." Both were held in San Antonio, Texas, the first on 6-9 November, 1951, and the second on 10-12 November, 1958. The information presented at the first meeting was published in book form by the University of New Mexico Press in 1952 and became a standard reference text for space medicine. Material gathered at the second symposium is in press and will be published this Spring.

These meetings have brought together hundreds of specialists in the field of space technology, both national and international, and have encouraged a closer working relationship among the many areas involved, particularly between the scientists, engineers and space doctors.

Progress Related

In 1952 a Space Medicine Branch or Section was established within the Aeromedical Association. Also in 1952, scientific and technological societies began to accept papers dealing with space medicine for presentation at their national meetings and for publication in their journals.

Dr. Heinz Haber and Dr. Buettner left the Department of Space Medicine in 1952, and Dr. Fritz Haber in June 1953. For approximately two years, Dr. Strughold carried on the work alone and in conjunction with other departments. Expansion of the Department was begun in January 1956 with the assignment of Dr. James Gaume and Capt. Emanuel Roth. The experimental work, especially the sealed cabin studies, were accelerated. In July 1957 Dr. Strughold was appointed Advisor for Research for the School of Aviation Medicine, and Lt. Col. George R. Steinkamp, USAF (MC), became Chief of the Department of Space Medicine. The staff was further expanded and moved into larger quarters.

In July 1958, a Division of Space Medicine was created at the School, giving it equal status with aviation medicine, clinical medicine, medical science and dental science. Four departments were set up within the Division, Bioastronautics, Astroecology, Biostrophysics, and Biogravics. Col. Paul A. Campbell, USAF (MC), is presently Chief of the Space Medicine Division.

Space Mission

The mission of Space Medicine is to contribute to the development, safety, and efficiency of manned space flight or astronautics. The space doctor, therefore, consults with the engineer in preliminary design studies; he is able to give advice in the construction or engineering phase, and will be largely responsible for the selection, indoctrination, and care of the crew in actual space operations. We have progressed in our research to the point that, if called upon, we feel we could write specifications for a space cabin, which could be met by the engineers. However, we must go on to achieve the ultimate in safety, efficiency, and comfort for the spacemen.

Some of the advanced areas which will be the objective of our research in the immediate future are the following: new and unique approaches to provide adequate long-term closed ecological systems for the manned environment; planetary environmentalology and ecology; the effects of long-term exposures to the weightless state and the effects of weightlessness on basic cellular functions and characteristics, such as growth and cellular reproductions.

The development of rocket propulsion has unlocked the door to space. It rests with the space doctors to enable man to open the door and survive in the strange environment beyond.

General White Tells AF Plans

From page 9—

assist friendly aircraft in avoiding air defense battle areas, and must assure that we do not attack our own aircraft.

Why do we have to have both manned interceptors and surface-to-air missiles in our air defense force? The final principle of air defense—the necessity for a mixture of weapons—will show us why.

Manned interceptors are required for the function of long-range attack upon the enemy. Manned interceptors are also necessary for identification and airspace policing and denial. In this function, nothing has yet been developed to replace the judgment, flexibility, and intelligence of the man in the cockpit.

Perhaps most important, manned interceptors provide the capability for sustained operations which the expendable surface-to-air missile inventory does not. Interceptors, for example, can be moved rapidly to provide a defense capability in areas where missiles have been expended.

On the other hand, long-range surface-to-air Bomarc missiles are necessary to provide fast reaction, high rate of fire and concentration of firepower for maximum destruction of the attackers.

Our electronic ground environment fulfills the first priority task of air defense—that of warning.

It provides us with the time needed to take necessary offensive and defensive actions. This environment includes radar stations (to detect bombers and missiles), picket ships, airborne early warning aircraft, Texas Towers, SAGE, and other facilities to provide the warning, surveillance, and control required to employ our weapon systems.

The DEW line runs across the northern fringe of the North American Continent.

In the Atlantic, the DEW line will join the NATO system. In the Pacific, the DEW line extends from the Aleutians to Midway. The extension of the Mid-Canada line runs from Newfoundland to the Azores.

The Navy contributes to this coverage with their picket ships and airborne early warning aircraft.

CINCNORAD will employ his American and Canadian air defense weapons under the control of the electronic ground environment.

This electronic system must be kept modern. More automation, such as provided by the SAGE system, is required to allow immediate identification of large numbers of aircraft and positive control of our own defensive weapon systems. Greater coverage is required to match the extended range and speed of both offensive and defensive weapon systems.

Space vehicles offer a means of increasing our own detection and warn-

ing capabilities in the 1960's.

Air defense of North America requires the bulk of our forces. However, we will need to provide less sophisticated but similar systems in overseas areas.

TACTICAL FORCES

Tactical air forces are another part of the over-all deterrent.

The tactical air arm is an instrument of the overseas commander whose mission is the security of his area. Tactical air tasks include counter-air operations; interdiction operations; support operations to assist surface forces; and reconnaissance.

Our tactical air forces also assist in the air defense of U. S. forces overseas.

These tactical forces have the flexibility to deliver varying degrees of fire power. They have a nuclear capability. They also have a capability to deliver a wide range of high explosive weapons. The munitions required are readily available in our units.

We have planned this force from an evaluation of its offensive and defensive tasks—seasoned, of course, by consideration of the varied geographical and political factors, deployed army and naval forces, and growing effectiveness of allied capabilities.

There are three principal reasons for having tactical air forces deployed close to the enemy.

First, these forces in-being and in-place, combat-ready and atomic-capable, greatly reduce the enemy's ability to launch a successful surprise attack. A surprise attack in one area would alert us in other areas. The Soviets' continuous efforts to cause us to withdraw forces overseas show their appreciation of the power and deterrent aspects of these forces.

Second, it can be anticipated that forces which are near the enemy and can strike immediately will be the first (together with our long-range strategic forces) to react to overt moves of the enemy.

Third, and very important, is the role that deployed tactical forces play in providing visible support to collective security.

In addition to the tactical air forces deployed overseas, it is necessary to maintain certain forces in the United States. These are assigned to Tactical Air Command. They have a dual function. First, they are needed for training and to provide a means of rotating combat-ready personnel and units overseas.

Secondly, we maintain ready combat forces in the United States—the Composite Air Strike Force.

This force has been given high priority for equipment and personnel. It is mobile, and it can support itself logistically. It is little more than flying time away from troubled areas.

The Composite Air Strike Force con-

—Continued on page 35

SPACE "INNER EAR"

Minneapolis-Honeywell will build an "inner ear" stabilizing and control system for the nation's first space capsule.

The capsule, to be built by McDonnell Aircraft Company under a contract awarded by the National Aeronautics and Space Administration, is expected to carry a man into orbit around the earth and return him safely after a space flight of perhaps 24 hours.

Honeywell's system of gyroscopes and electronics will act in just the same manner as a human's inner ear that informs him when he's tipping over or hanging upside down, explained Charles L. Davis, General Manager of Honeywell's Aeronautical Division, which will fabricate the systems for McDonnell.

Honeywell's system will control a series of small reaction jets and retro-rockets to keep the space capsule from tumbling, to keep it pointed in the right direction as it orbits the earth, and to control the capsule during re-entry and its course back to earth.

The system, contained within the capsule, will not control the flight of the large missile that will be used to launch the capsule into an orbital course around the earth. If a failure occurs during the launching phase, the Honeywell system will automatically eject the capsule from the missile and automatically control such safety features as parachutes, balloons and signaling devices.

AF Reveals Plans For 17,256 Promotions

From first page—
one-star rank.

Not included in the overall fiscal '60 total are 24 promotions planned to the grade of major general. This is four less than are being made during FY '59.

Promotions to the rank of colonel will be increased from 320 in the current fiscal year to 325 in the 12-month period beginning in July.

Promotions to lieutenant colonel and major will remain at 960 and 2,000, respectively, the same number planned for the current fiscal year.

Promotions to the rank of captain will drop from 6,511 this year to 5,308 next year, but promotions to first lieutenant will go up from 8,156 this year to 8,601 next year.

Although general officer promotions will be accelerated, the Air Force will have only 12 more general officers on 30 June 1960 than it had on 1 January of this year.

The 1 January total included 11 gen-

erals, 25 lieutenant generals, 169 major generals and 210 brigadier generals. The 30 June 1960 estimate boosts the number of full generals to 12, increases the number of lieutenant generals to 33, decreases the number of major generals to 169 and increases the number of brigadier generals to 214. The end fiscal '60 total (427) is the maximum number of general officers permitted under the Officer Grade Limitations Act.

In a report submitted to the Senate Armed Services Committee, the Air Force Directorate of Personnel Planning said 363 of the general officers on duty on 1 January of this year are rated officers, and all but 13 of this group are "on flying status."

Here is a comparison of (1) the limitations imposed by the Officer Grade Limitations Act, (2) the number actually required within the limitations, (3) the number assigned on 30 November 1958 and (4) the number estimated to be assigned as of 30 June 1960:

Grade	(1)	(2)	(3)	(4)
General	427		418	427
Colonel	5,170	5,597	4,656	4,948
Lt. Col.	10,452	10,452	9,796	10,181
Major	23,090	23,090	22,453	23,162
Captain	(86,781)	46,931	41,947	47,250
Lieutenant		39,850	50,061	39,952
Total	125,920	125,920	129,331	125,920

Air Force Reports 15,059 Regulars Are Serving Above Permanent Ranks

LATEST Air Force statistics show that 15,059 Regular officers are serving in temporary grades higher than their permanent status. This includes 13,609 serving one grade higher, 1,372 two grades higher, and 78 who are three grades above their permanent grade.

The following table shows the distribution of Regular officers by permanent grade and temporary grade in which serving as of 30 September 1958.

GRADE IN WHICH SERVING

Permanent Grade	Gen	L/ Gen	M/ Gen	B/ Gen	Col	L/ Col	Maj	Cap	1/Lt	2/Lt	Total
Maj Gen	12	22	40								74
Brig Gen			79	3							82
Col			42	194	2012						2248
Lt Col					1796	3552					5348
Maj					444	2848	6754				10046
Capt					78	852	4217	10442			15589
1st Lt							22	3446	5819		9287
2nd Lt									1007	1072	2079
Total	12	22	161	197	4330	7252	10993	13888	6826	1072	44753

26,254 Reservists Up, 9,114 Down

A SIMILAR comparison for Reserve officers shows that a total of 26,254 are serving in temporary grades which are higher than permanent status, with 9,114 serving one grade below permanent rank.

The Air Force reports that 26,167 Reservists hold temporary status one grade above permanent grade, with 87 serving two grades above permanent grade.

GRADE IN WHICH SERVING

Permanent Grade	M/Gen	B/Gen	Col	L/Col	Maj	Cap	1/Lt	2/Lt	Total
Maj Gen	2								2
Brig Gen	3	3							6
Col		2	356	200					558
Lt Col			17	2276	3586				5879
Maj				100	7270	5178			12548
Cap					554	17551	119		18224
1st Lt					8	5774	11414	31	17227
2nd Lt						79	19717	10508	30304
Total	5	5	373	2576	11418	28582	31250	10539	84748

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Col. De Shazo's Wing At Mt. Home Saluted; M/G Old Presents Other 15th AF Awards

The 9th Bombardment Wing of Mt. Home AFB, Idaho, was honored last week when Maj. Gen. Archie J. Old, Jr., Fifteenth Air Force commander, presented the Air Force Outstanding Unit Award to the B-47 Stratojet unit during a Commanders Conference at March AFB, Calif.

Accepting the award from General Old, as shown at right, is Col. Robert V. DeShazo, Wing Commander. Col. Ellery D. Preston, Jr., is Base Commander.

The 9th successfully pioneered and service-tested a new strike force alert concept during the period of January 1957 to January 1958. The wing demonstrated an improved capability to immediately launch a retaliatory strike force.

Colonel DeShazo also received the Outstanding Base Supply Award for his wing.

Other awards presented by General Old went to:

Brig. Gen. Robert B. Miller, Commander, 12th Air Division, March AFB, Rotating Quarterly OJT Trophy.

Col. Landon E. McConnell, Commander, 803d Combat Support Group, Davis-Monthan AFB, Outstanding Combat Support Group OJT Award.

Brig. Gen. Delmar E. Wilson, Commander, 36th Air Division, Davis-Monthan AFB, Best Air Division Retention Award.

Col. Matthew J. McKeever, Jr., Commander, 819th Combat Support Group, Dyess AFB, Tex., the 1958 Best Combat Support Group Retention Award.

Col. Salvatore E. Manzo, Commander, 810th Air Division, Biggs AFB, Tex., Best



... Mt. Home Is Tops

OJT Program Award for his division. Colonel Manzo also accepted the Outstanding Bomb Wing OJT Award on behalf of the 97th Bombardment Wing at Biggs.

Col. Herbert I. Shingler, Jr., Commander, 43d Bombardment Wing, Davis-Monthan AFB, Best Bomb Wing Retention Award.

Col. Loran D. Briggs, Commander, 28th Bombardment Wing, Ellsworth AFB, S. Dak., Haskell Gray Award for outstanding maintenance achievement.

Fewer Eligibles Will Be Selected

THE pass-over rate for officer promotions in the Air Force will continue to grow during the coming fiscal year, except to the rank of captain.

Out of approximately every 100 officers eligible for promotion to colonel in fiscal '58, about five were selected. In the current fiscal year, five out of every 108 are being selected. In the new fiscal year beginning 1 July, the ratio will move to about five out of every 113 eligible.

Here is a complete breakdown of the ratio for fiscal '58, '59 and '60, showing the growth of the pass-over rate in the ranks of colonel, lieutenant colonel and major:

Ratio Of Those Promoted To Eligibles

	FY 1958	FY 1959	FY 1960
Colonel	1 to 20.1	1 to 21.6	1 to 22.6
Lt. Col.	1 to 15.5	1 to 15.8	1 to 16.3
Major	1 to 7.5	1 to 9.1	1 to 10.4
Captain	1 to 2.0	1 to 2.6	1 to 2.5

Here Is Rundown On Time In Grade For Air Force During Fiscal '58

The Air Force has compiled the following table which shows the time in grade and service (by years) of line officers who were promoted during fiscal year 1958. This information was reported to the Senate Armed Services Committee, in connection with a report on Air Force officers promotion plans for the year that starts 1 July 1960.

To	Average Time in Grade		Total AFSC	
	Regular	Reserve	Regular	Reserve
Colonel	6.1	6.0	15.0	14.0
Lieutenant Colonel	6.0	6.0	13.9	13.0
Major	6.4	6.8	11.9	12.8
Captain	3.4	3.6	5.0	5.1

No Changes Foreseen In Minimum Times

The Air Force has advised Congress it anticipates no changes in the minimum time in grade required for promotion consideration to the ranks of first lieutenant through colonel in the year that starts 1 July.

The minimum will continue to be 48 months in grade for promotion to colonel and lieutenant colonel, 60 for major, 36 for captain, and 18 for first lieutenant.

AGE BY GRADE

The following is the average age by grade of Air Force officers at the beginning of fiscal year 1959:

General	49.9
Colonel	44.6
Lt. Colonel	42.8
Major	40.0
Captain	35.5
First Lt.	27.0
Second Lt.	24.5

The average age for all Air Force officers is 33.9.

SERVICE FAMILY NOTES

Family Editor
Louise B. McGiffert

Associate Family Editor
Bertie Johnson

Mrs. Eisenhower Greets Marine Corps Wives



... Corsage For First Lady

Mrs. Dwight D. Eisenhower was honored 21 January by the Washington Marine Officers Wives Club at an Army-Navy Country Club Luncheon.

Prior to the arrival of the First Lady, Mrs. Richard Jackson, wife of the Assistant Secretary of the Navy for Manpower, Personnel and Reserve Forces, joined Mrs. Randolph McC. Pate and Mrs. Richard Rothwell, the Honorary President and President, respectively, in greeting the membership. Mrs. John C. Munn, Chairman of the Hostess Committee, and Mrs. Norman J. Anderson, club Vice-President, were also present in the receiving line.

Upon arrival, Mrs. Eisenhower was presented with a white orchid corsage by Mrs. Rothwell who, along with Mrs. Pate, escorted her into the dining room.

Assisting Mrs. Munn as hostesses were the wives of officers of the Division of Aviation, Headquarters Marine Corps, including Mesdames Ross S. Mickey, Martin E. W. Oelrich and John L. Smith.

Frankford Arsenal Wives Aid Youth

A YOUTH Activities program is being sponsored by the Frankford Arsenal Women's Club in Philadelphia to promote greater sports participation and increase social activities for young people. Sons and daughters of members of the Officers' Open Mess in the junior and senior high school age group are eligible to participate. The committee in charge of this program includes: Mesdames Stanley W. Tyler, Chairman; Luther R. Barth, R. A. Patterson, F. Reger, J. R. Cranks and L. Schmidt.

Capping At Pendleton; Awards At Walker

Twenty-two graduates were capped recently at the U. S. Naval Hospital, Camp Pendleton, Calif.

Miss Betty Burton, Field Director at the Hospital, presented the class to Capt. E. F. Kline (MC) USN, the Hospital commanding officer. LCdr. B. M. Perry (NC) USN, capped the Gray Ladies and Mrs. Grace Elliott, Camp Pendleton Gray Lady Chairman, led the Gray Ladies in the pledge. LCdr. D. W. Ackley (ChC) USN, gave the invocation and benediction.

Maj. Gen. Reginald H. Ridgely, jr., USMC, Commanding General, and Mrs. Ridgely were special guests.

Gray Ladies who received their certificates and caps were: Mesdames J. A. P. Binfield, Arthur B. Binkley, J. L. Cox, Morgan Cumbertson, Kathleen Dobbin, Helen Emetaz, W. R. Gardner, T. N. Harperis, C. O. Jensen, Martin F. Manning, Frank B. McGurk, Charles J. Moore, Catherine O'Brien, Donald Orr, Lanhei Park, Kathleen Peniston, Dorothy Pepper, A. S. Pratt, Helen Ratcliff, C. T. Risher, and Margaret Swaggerty.

The Awards Ceremony of Family Services was held recently at Walker AFB, N. M., with awards presented by Lt. Col. J. Adleman in behalf of Lt. Col. W. W. Yarborough, Acting Base Commander.

Four year stripes were presented to Mrs. D. Eastling and Mrs. H. Gilpin; two year stripes to Mrs. E. Hauge and Mrs. F. Lamb; and one year stripes to Mrs. F. Craver, Mrs. J. Muhl, and Mrs. R. Oyler.

The new SAC Family Services Badge with hour bars were awarded to the following: 1500 hour bar to Mrs. R. Vander-Leest; 500 hour bars to: Mrs. G. Lowery, Mrs. J. Shirey, Mrs. F. Tansley and Mrs. J. Waller; 250 hour pins to Mrs. F. Craver, Mrs. A. Nice, and Mrs. J. Stinson; and 50 hour pins to: Mesdames K. Collins, J. Davis, L. Feller, D. Ketcham, W. Norton, L. Potter, J. Rayson, B. Senkel, M. Scharmen, J. Stephens.

Mrs. Frances L. Craver, wife of Captain Craver of the 40th Bomb Squadron, recently appointed as Assistant Coordinator, moves up to the position of Coordinator with the expiration of Mrs. J.

Shirey's term. Mrs. Craver has worked with Family Services at Walker since January 1958. She has served on the Hospital Committee and also as Chairman of the Welcoming Committee. The new Assistant Coordinator is Mrs. Everett E. Hauge, wife of M/Sgt. Hauge of the 6th A&E.



CHANGE OF COMMAND. The past president of the Women's Club, 24th Artillery Group, Philadelphia Army Air Defense, Mrs. Arthur B. Nash, jr., left, passes the record of minutes and funds to the new president, Mrs. James H. Hogan. The Election was held at the Philadelphia Navy Yard Officer's Mess.

The Navy Supply Corps Wives' Club of San Diego will hold a "Hearts and Flowers" luncheon 3 February at the Officers Club, Marine Corps Recruit Depot. Mrs. C. A. Lenz will give a demonstration on flower arranging and one of her arrangements will be given as a door prize.

Mrs. J. W. Goodpasture, Luncheon Chairman, is being assisted by Mesdames D. E. Parrish, A. C. Garbak, James Billings, and Lillian Dunham.

LEAVENWORTH GRADUATES HOLD REUNION

More than 60 graduates and their wives of the 1956 Regular Course at the Command and General Staff College, Ft. Leavenworth, Kan., held a reunion at the "Burns' BOQ," 41 D Street, S. E., Washington, 24 January.

The affair was promoted by Lt. Col. Robert W. Burns and Maj. George Gould.

Labeled a cocktail party, the reunion was marked by each guest furnishing his own beverage and also participating in setting a large table of hors d'oeuvres. Colonel Burns and Major Gould provided the sliced turkey.

In order that graduates would have no trouble locating the residence, a lighted sign displayed the words "Gruber Hall" in the front yard of the home. This was the Academic building at Leavenworth at which these former students had spent approximately eleven months.

Assisting in greeting the guests were Lt. Col. and Mrs. Hal Parker, Maj. and Mrs. Leonard Holder and Lt. Col. and Mrs. John McWaters.

New Capehart Homes At USAF Academy; Other Journal Entries For Service Families

Capt. Tom Bass, Chief of Maintenance and Special Projects Division, Director of Installations, opened the door to new housing for 13 USAF Academy families when he presented the keys for the first Douglas Valley Capehart units to Col. J. A. Westbrook, 7625th Support Group Commander. First couple to receive the keys—four for each home, was Capt. and Mrs. Edwin B. Mixon, shown at right, who occupy Quarters 4206K.

The Air Force Academy has 650 Capehart homes in Pine Valley and there will be 550 in Douglas Valley.

Maj. Patrick L. Doran, Base Housing Officer, reports that in addition to Captain Mixon, other officers occupying the first Douglas Valley units are: Lt. Colonels W. E. Echelberger, Edgar A. Holt, and H. A. Linn; Majors John W. Carley, Ray A. Dunn, jr., Jean G. Goppert and Stephen Mattick; and Captains Charles H. Brown, jr., Charles A. Gabriel, C. T. Mallett, Walter R. Milliken and Everett E. Stevenson.



... Happy Day in Douglas Valley

Twenty trailer homes will be established in the Sacramento Mountain area of New Mexico for vacation use by Walker AFB, N. M., personnel. Base Commander Col. James V. Reardon said a committee to include an officer, airman and NCO will be formed in the near future to work out final details. Tentative arrangements indicate rentals will run at about \$1.50 per day.

More than \$111,000 was donated to charity by men of the Atlantic Fleet Destroyer Force last year, according to a report issued by Destroyer Force headquarters in Newport, R. I. Largest amount given by the 50,000 men of the Destroyer Force went to United Fund and Community Chest drives in ports where the ships are homeported. The Newport Community Chest benefited by contributions of \$14,931; a total of \$26,327 was given to these drives in other cities.

Maj. Gen. Louis T. Heath, USA, Commander of Field Command, Armed Forces Special Weapons Project, Sandia Base, N. M., has been renamed State Campaign Chairman of the annual Federal Service Campaign for nine National Health Agencies in New Mexico. Serving as Bernalillo County Chairman will be Col. Carey L. O'Bryan, CofS for the Air Force Special Weapons Center at Kirtland AFB. Col. Leo A. Kiley has been appointed Project Officer for Kirtland AFB while Maj. L. G. Sill, USAF, will act in the same capacity at Sandia Base. Other area project officers include Lt. Col. Edward K. Loudon, Cannon AFB; Maj. C. W. Edmonds, Walker AFB; Lt. Col. J. L. Lewis, White Sands Missile Range; and Lt. Col. R. J. Sunde, Holloman AFB.

The Air Force, seeking to cut PCS expenditures, is encouraging officers and airmen to extend voluntarily their overseas tours up to 48 months, and longer, in some cases. Air Force members programmed for return to the ZI in Fiscal Year 1959 have been urged to extend for rotation during the first quarter of FY 1960. In this case, the tour maximum of 48 months may be exceeded. The Air Force said requests for extensions will normally be approved unless the member's ZI assignment rates a higher priority than the overseas job, or the application is made less than 60 days before rotation.

A search is being made for some 800 former Army Air Corps personnel stationed at Robins AFB, near Warner Robins, Ga., during WW II years of 1943-44. They—or their heirs—are due dividend checks totaling about \$17,000 as refunds on electric light bills paid to a local electric corporation. The Flint Electric Membership Corporation—a non-profit organization which serves the middle Georgia area—declared a dividend for the years of 1943-44 several months ago and launched a search for its customers. The dividends represent refunds of service charges collected over the corporation's actual operating expenses, officials explained. The checks due this group range from a few cents to \$50, but average about \$20 each.

Corporation officials emphasized that this dividend covers only the years of 1943-44. They said similar refunds are anticipated for customers of 1945 and subsequent years, and it's possible another dividend may be declared in a few months. Inquiries should be sent to Flint Electric Membership Corporation, Reynolds, Georgia, giving signature, address, and approximate date the applicant began receiving electric service from the company.

Service Weddings and Engagements

VICE ADMIRAL (USN-Ret) and Mrs. Ralph E. Jennings of The Farmhouse, Chestnut Ridge Rd., Bethel, Conn., announce the engagement of their daughter, Elizabeth, to Mr. Harlan Fiske Stone, II, son of Mr. and Mrs. Lauson H. Stone of Brooklyn Heights, N. Y., and Buck Hill Falls, Pa.

Granddaughter of the late Mr. Lowell Melvin Palmer of Brooklyn, N. Y., and the late Mrs. Amy Burnham Palmer of Portland, Me., and of the late Mr. Ralph Wood Jennings of Brooklyn Heights, and Mrs. Jennings, Miss Jennings is a graduate of the Madeira School and Bradford Junior College and attended Barnard College. Her fiancé, a graduate of the Polytechnic Preparatory Country Day School, Brooklyn, and of Princeton University, where he was a member of the Charter Club, received a Master's degree from Harvard's School of Arts and Sciences. The grandson of the late Chief Justice of the United States and Mrs. Harlan Fiske Stone, and of the late Mr. and Mrs. William H. Colwell of Illinois, Mr. Stone is now a reporter on the Stroudsburg, Pa. *Daily Record*.

The wedding is planned for September.

KELLER-DALEY — Mrs. Edmund Koehler Daley of 876 No. Quantico St., Arlington, Va., announces the engagement of her daughter, Beatrice, to Mr. Joseph Frederick Keller, Jr., son of Mr. and Mrs. Keller, also of Arlington.



Miss Daley

Miss Daley is the daughter of the late Colonel Daley and the granddaughter of Brig. Gen. Edmund L. Daley, USA-Ret, and Brig. Gen. George C. Shaw, USA-Ret. She attended the Marymount and Washington-Lee High Schools, and her fiancé was graduated from the Gonzaga High School.

A Spring wedding is planned.

AMES-LANDESS—Mr. and Mrs. S. S. Landess of Alexandria, Va., announce the engagement of their daughter Carole, to Mr. David Lyndle Ames, son of Chaplain (Lt Col) and Mrs. Kenneth L. Ames of the Army War College Student Detachment, Carlisle Barracks, Pa.

Miss Landess is a student at Mary Washington College of University of Virginia at Fredericksburg, and her fiancé is attending George Washington University, Washington, D. C.

A June wedding is planned.

PARKER-HOVENDON—Mr. and Mrs. John L. Hovendon of Westfield, N. J., have announced the engagement of their daughter, Joan Lincoln, to Mr. Somerville Parker, son of Maj. Gen. (USA-Ret.) and Mrs. Edwin P. Parker of Washington, D. C.

Miss Hovendon, who was graduated from Mt. Holyoke College, is a member of the faculty of St. Margaret's School, Tappahannock, Va. Mr. Parker, a graduate of St. Alban's School, Washington, and Wesleyan University, is on the faculty of Christchurch School in Virginia.

deSHAZO-MEYBOM — Mr. and Mrs. Manfred Meybom of Darmstadt, Germany announce the engagement of their daughter, Brigitte, to Capt. Thomas E. de Shazo, Jr., USA, son of Major General (USA) and Mrs. de Shazo of Ft. Sill, Oklahoma.



Miss Meybom

Captain de Shazo, whose father is the commanding General of the U. S. Army Artillery and Missile Center, is currently serving with Headquarters, V Corps.

An early Spring wedding is planned, after which, in June, the couple will be returning to the United States.

CONROY-PHELPS—LCdr. (USN-Ret) and Mrs. John E. Phelps of 392 Main St., Suffield, Conn., announce the engagement of their daughter, Galera Marion, to Mr. Peter Michael Conroy, Jr., son of Mr. and Mrs. Conroy, sr., of West Hartford, Conn.

Miss Phelps attended the Antilles Consolidated School and the Academia del Sagrado Corazon, San Juan, P. R., and was graduated from the Princess Anne School, Norfolk, Va. Her fiancé is a graduate of the Loomis School in Connecticut and Dartmouth College, where he was a member of the Zeta Psi fraternity.

BARDEN-BRYDGES—New York State Senator and Mrs. Earl W. Brydges of Wilson, N. Y., have announced the engagement of their daughter, Mary Lynn, to Lt. William Baker Barden, USA, son of Mr. and Mrs. Kenneth Stuart Barden of Watertown, N. Y.

Miss Brydges is a graduate of Rosary Hill College, Buffalo. Her fiancé, an alumnus of St. Lawrence University, is a personnel psychologist at the Army Recruiting Station, Beckley, W. Va.

An August wedding is planned.

BURGOYNE-McDEVITT — Mr. and Mrs. John J. McDevitt of Ambler, Pa., have announced the engagement of their daughter, Mary Louise, to 2d Lt. James Frederick Burgoyne, USMCR, son of Mr. and Mrs. Harry Burgoyne of Philadelphia.

Miss McDevitt is a graduate of Mt. St. Joseph's Academy and the Chestnut Hill Hospital School of Nursing. Her fiancé, an alumnus of St. Joseph's Preparatory School and St. Joseph's College, is a student at the Marine Corps School, Quantico, Va.

ENGLEHART-HARDESTY—Miss Ellen Hardesty, daughter of Mr. and Mrs. Louis Hardesty of Ellisville, Mo., became the bride of 1st Lt. John R. Englehart of Laon Air Base, France, son of Mr. J. R. Englehart of Amherst, Va.

Given in marriage by her bridegroom's Commanding Officer, Maj. Henry J. Warren, the bride was attended by Miss Norma C. O'Rozco of Denver. Best man for Lieutenant Englehart was 1st Lt. Keith C. Kuester.

A graduate of Denver University and the USMA, the bridegroom is stationed with the 303d Tactical Reconnaissance Squadron.



Mrs. Englehart

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LOW ALTITUDE MISSILE WIVES—Newly elected officers of the Low Altitude Missile Department Officers Wives Club at the Army Air Defense School, Ft. Bliss, Tex., are left to right Mrs. Clyde Rands, Hospitality; Mrs. Gordon Zeits, Secretary; Mrs. Ralph Kinnaird, Name Tag Chairman; Mrs. Justin Ormsby, Vice President; Mrs. Roger Holt, President; Mrs. Lowell Bellsmith, Treasurer.

A HELPING HAND FOR PEOPLE OF SERVICE

• February is a month with an accent on the heart—especially with Valentine's Day on the 14th.

• It's a month when hundreds of Officer and Non-Commissioned Officer Wives Clubs throughout the world will be planning "People of Service" welfare projects for the remainder of 1959.

• The Army Navy Air Force Journal wants to extend a helping hand to our "People of Service," the tireless ambassadors of goodwill.

• The Journal will be pleased during February to make a three dollar contribution to the welfare fund of Service wives clubs in honor of any member who sends us a new subscription order, (not applicable to renewals) accompanied by written instructions concerning where she desires that The Journal mail the "People of Service" recognition payment.

The following coupon may be used for convenience:

Please enter a ☐ one-year subscription at \$7.50; ☐ two-year money-saving subscription at \$12.75; ☐ five-year subscription at \$28.00 to the Army Navy Air Force Journal for:

Name

Rank Service

Address

☐ Payment enclosed ☐ Bill later

Send "People of Service" three dollar contribution to:

Name of Club

Address

In honor of

—Continued on next page

Weddings & Engagements

From preceding page—

CHALLGREN-RITCHIE—Mr. and Mrs. Thomas H. Logan, Jr., of Mechanicsburg, Pa., have announced the engagement of her daughter, Miss Sara Jordan Ritchie, to Capt. Stanley Austin Challengren, USMC, son of Mr. and Mrs. Axel B. Challengren of Kiester, Minn.

Miss Ritchie, a graduate of Kent Place School, Summit, N. J., and the Katharine Gibbs School, New York, studied at Wells College and the University of Lausanne, Switzerland. Captain Challengren, who attended Luther College in Iowa, is a jet pilot stationed at New River, N. C.

The wedding is planned for 14 February at Mechanicsburg.

BARTHOLOMEW-OBERNDORFER—Col. (USAR) and Mrs. Abbott Oberndorfer of Garden City, L. I., N. Y., have announced the engagement of their daughter, Elizabeth, to Mr. James Ripley Bartholomew, son of Mr. and Mrs. Robert Bradford Bartholomew of Hoboken, N. J.

Miss Oberndorfer, a chemist with the Vick Chemical Co., Bloomfield, N. J., is a graduate of Elmira College. Her fiancé, an alumnus of Stevens Academy, Hoboken, and a student of Newark College of Engineering, is associated with the Walter Kidde Co., an engineering firm in Belleville, N. J. He is a great-grandson of the late Gen. James Wolfe Ripley, Chief of Ordnance of the Northern Army during the Civil War.

GIBEAUT-CUNIN—Col. (USA) and Mrs. Kenneth A. Cunin of 3685 Sunset Dr., Columbus, Ohio, announce the engagement of their daughter, Janet, to Mr. Donald R. Gibeaut, son of Mr. and Mrs. Webster Gibeaut of Sandusky, Ohio.



Miss Cunin

Miss Cunin attended Mt. Union College and Ohio State University, where she was a member of the Alpha Xi Delta sorority. She is now employed by the University's Engineering Experiment Station. Her fiancé, a graduate of Kent State University, is presently a fourth year Civil Engineering student at Ohio State University.

The wedding is planned for 20 June at Columbus.

LOVELY-NICHOL—Col. and Mrs. William Weaver Nichol of 214 Oak Glen Dr., San Antonio, announce the engagement of their daughter, Nancy Ann, to 1st Lt. Howard Eugene Lovely, USAF, son of Mr. and Mrs. Howard Valley Lovely of St. Louis.

Miss Nichol, whose father is Chief of Surgery at Brooke Army Hospital, Ft. Sam Houston, Tex., was a 1957 Journalism graduate of the University of Texas. She has been a member of the Publicity Department of the San Antonio Chamber of Commerce and Editor of its magazine. Lieutenant Lovely, USMA '55, also attended St. Mary's College in Minnesota. He is serving with SAC at Ellsworth AFB, S. D.

The wedding is planned for 15 February at the Northwood Presbyterian Church, San Antonio.

ALLEGAERT-VAN HORN—Dr. and Mrs. Abram Leonard Van Horn of Far Hills, N. J., have announced the engagement of their daughter, Martha Sue, to Lt. Burr Allegaert, USAF, son of Mr. and Mrs. John Allegaert of South Orange, N. J.

Miss Van Horn, a graduate of the Kent Place School, Summit, N. J., is a senior student at Wheaton College. Her fiancé is an alumnus of the Brooks School, Andover, Mass., and Colgate University.

AMENT-STAUD—Col. (USA) and Mrs.

Leslie J. Staub of Kansas City, Mo., announce the marriage of their daughter, Constance Jean, to Mr. Gustav Frederick Ament, which took place at the Base Chapel, Richards-Gebaur AFB, Mo., 26 December.

The couple are now at home at 415 No. Cascade St., Apt. 4, Colorado Springs.



Mrs. Ament

GUTHRIE-GALUSHA—Brig. Gen. and Mrs. Mark H. Galusha of 2330 So. Ode St., Arlington, Va., have announced the engagement of their daughter, Ellen Jean, to Cadet John S. Guthrie, Jr., USMA, son of Maj. General (USA) and Mrs. Guthrie, sr., of 2032 Columbia Pike, Arlington.



Miss Galusha

Miss Galusha, whose father is the Executive Assistant of the National Guard Association of the United States, attended Mary Washington College of the University of Virginia. Her fiancé, a member of this year's graduating class at the USMA, attended Andover Academy. He is the son of the Director of Military Aid for Europe, Office of the Secretary of Defense.

A late June wedding is planned, following Cadet Guthrie's graduation.

Service Folk

Peter Hagen, 13, son of Army Col. and Mrs. Robert P. Hagen, USA, has received the Life Scout award at Court of Honor ceremonies held recently at Allied Forces Southern Europe Headquarters, Naples, Italy. His brother, Charles, 9, is also active in scouting as a member of the Naples cub pack. Colonel Hagen is on the staff of Admiral Charles R. Brown, USN, C-in-C, AFSE.

Rita Hines Claggett was born to Lt. Col. and Mrs. Robert H. Claggett, Jr., of Washington, on 15 January. She is the granddaughter of Mrs. Hines Cleland of Chevy Chase, Md., and of Mr. R. H. Claggett of Jackson, Tenn., and the great-granddaughter of General John L. Hines, USA-Ret., of Chevy Chase.

Boy Scouts of Carlisle Barracks, Pa., have won high honors in Scouting. **William F. LaMee**, 15, son of Col. and Mrs. William S. LaMee 3d, earned Scouting's highest award, Eagle Scout Rank, and **Warren S. Everett**, 13, son of Col. and Mrs. Warren S. Everett, was promoted to Life Scout. **Blair Williams**, 15, son of Col. and Mrs. Robert R. Williams, has been elected chairman of the Carlisle District Explorer Cabinet, consisting of elected representatives from each Explorer Post in the District. Blair is a member of Carlisle Barracks Post #173. Colonels LaMee and Williams are students at the Army War College, while Colonel Everett is a faculty member at the Army's senior educational institution.

Maj. Gen. Paul R. Weyrauch, USA-Ret., former Commander of Ft. Stewart, Ga., from 31 August 1956 to 2 April 1958, has received a second Oak Leaf Cluster to his Legion of Merit for outstanding service for the period of 26 July 1946 to 17 October 1958. Brig. Gen. Eric H. F. Svensson, who succeeded General Weyrauch, presented the award in ceremonies attended by Ft. Stewart officials, Mrs. Weyrauch, their son, Paul, and Mrs. Svensson.

The Weyrauchs reside in Richmond Hill, Ga.

Mrs. Beverly Dahlstrom, after completing less than nine hours of flight instruc-

Mrs. George Eyster Mobilizes "Taxi Dancers" For '49er Benefit At Ft. Benning

Ft. Benning, Ga. The Daughters of the U. S. Army '49er Party will be held 7 February under direction of Col. J. B. Matthews. Ticket distribution is headed by Col. Lloyd Ramsey.

Other committee chairmen are: Lt. Col. Robert Cullis, Games; Maj. Harry L. Reeder, Banker; Capt. and Mrs. Robert Lynch, Decorations; Mrs. James Hungate, Food; Mrs. George Eyster, Jr., Entertainment; Mrs. James V. Thompson, Games; Mrs. Leon McCall, Jr., "Cigarette Girls"; Mrs. Martha Volentine, Personnel, and Mrs. E. F. Holton, JADA Chairman.

In the past two years, the DUSA '49er Parties have raised \$11,700 and have benefited such organizations as the Youth Activities Club, Post Children's Nursery, Martin Army Hospital, Parent-Teacher Association and Army Relief Society.

An "almost professional" can-can line trained by Mrs. Dwight Adams will perform at the party; dancers include Mesdames Rolf Arnheim, James Simonton, Harry Spaulding, Bruce Tucker and Mrs. Adams.

Also on hand will be "taxi dancers" ruled over by Mesdames Eyster, Charles Winn, Reginald Lombard, Joseph Collins, James Reid and the honorary "Madam", Mrs. Harriet Weeks.

"Taxi dancers" include Mesdames Robert Phillips, Richard Peabody, William Veek, Geoffrey Daniels, Jonathan Barrett, Clayton Quig, Daniel Gormley, William Vonshell, John Welch, John Squires, Thomas Byrnes, and Pat Sanford, and Miss Louise Tourville, Miss Barbara Peterson, Miss Sandy Sanders, Miss Boots Garcia and Miss Wynell McDermott.

SAC Chief Presents Medal To Mrs. Darmody

General Thomas S. Power, Cinc of SAC, has awarded the Legion of Merit posthumously to Maj. Robert E. Darmody. Accepting the medal in ceremonies at Offutt AFB, Neb., was his widow, Mrs. Mary F. Darmody, 4530 Valley St., Omaha, and their 10-year-old daughter, Kathleen.

Major Darmody was killed in April 1958 in a civilian aircraft accident. At the time he was assigned to the Ballistic Missile Division, Inglewood, Calif. At Offutt, he was instrumental in the organization and development of the Ballistic Missile and Aerodynamic Missile Targeting capability for the command.

Major Darmody's citation resulted from his "exceptionally meritorious conduct in the performance of outstanding service" as Chief, Computer Branch, ARDC Headquarters, Washington.

Mrs. Darmody, who also has another daughter, Peggy, three and a half months old, was a guest of the command for the presentation. During her visit she was escorted through the SAC Command Post which her husband had originally helped organize.

Major Darmody entered the service in January 1942 from Grantsburg, Wis., where his parents, Mr. and Mrs. Elmer Darmody, still live.

tion, recently became the Mather AFB, Calif. Aero Club's first dependent member to solo. She is the wife of Col. John R. Dahlstrom, Commander of Mather's 3535th Air Base Group.

Col. Julian S. Albergotti, Deputy Assistant Commandant of Ft. Bliss, Tex., who retired 31 January with more than 30 years service, and Mrs. Albergotti will make their home in Charlotte, N. C., where their son, Dr. Julian Albergotti, Jr., is a practicing physician.

Mrs. Chester M. Freudendorf has been named Chairman of the Ft. Benning, Ga., Red Cross volunteer program. A qualified Gray Lady and a Staff Aide, she is the wife of Lt. Col. Chester Freudendorf, a member of the Fundamental Research and Doctrine Committee of the Army Infantry School's Command and Staff Department.

Mrs. Richard A. White is the new President of the Fort Lee, Va., Women's Club, succeeding Mrs. James S. Griffin, whose husband, Colonel Griffin, has been assigned to the Philadelphia Quartermaster Depot.

Col. Joseph M. Johnson, Director, Operations Division, Army Engineer School, Ft. Belvoir, Va., retired 31 January after more than 20 years' service. He and Mrs. Johnson will reside at 2402 Cameron Mills Road, Alexandria, Va.

Maj. William A. Davis, newly assigned to G-1 section, USATC (Inf) Ft. Ord, Calif., nearly went around the world to reach his new assignment. He was assigned to the Eighth Army G-1 section in Korea, and from there went through the Philippines, Viet-Nam, Thailand, India, and Saudi Arabia, to Europe where he joined his family for return to the U.S. He and his wife, Tina, now reside at 224 Calmer Rd., Ft. Ord.

Club Calendar

A fashion show will be the entertainment provided for the luncheon of the **Women's Club of the Army Surgeon General's Office** at noon on Thursday, 12 February, at the Walter Reed Army Medical Center Officers Club. Mrs. William Wegner is Chairman.

The **Chaplains Wives' Club** will hold a luncheon and fashion show Tuesday, 3 February, at Walter Reed Officers Club at 12:30. Mrs. John F. Daniels will be hostess chairman assisted by Mrs. Frank R. Wilson and Mrs. Maurice S. Kleinberg.

Newspaper columnist Bill Gold will speak at the Valentine luncheon of the **Transportation Corps Women's Club 4** February at the Army and Navy Country Club. Chairman is Mrs. Robert H. Billingsley. Special guests will be Mrs. Maxwell Taylor, Mrs. Carter B. Magruder and Mrs. Emerson Itschner. Mrs. Frank S. Besson, Jr., wife of the Chief of Transportation and the Club President, Mrs. Reuben E. Wheelis, with Mrs. Taylor, Mrs. Magruder and Mrs. Itschner will receive the guests. The Valentine theme is being worked out by a committee headed by Mrs. John Goodley and the hospitality chairman Mrs. Lawrence Anderson. Reservations, which close 2 February are being taken by Mrs. Frederick M. Eggan, 6308 Pioneer Drive, Springfield, Va., telephone FL-4-5057.

The February gathering of the **Adjutants General Ladies Luncheon Group** will be held at the Ft. McNair Officers' Club at 12:15 3 February, when Miss Bridget Maginn will talk on sewing.

Officers Assignment Division ladies with Mrs. George Martin as chairman, will be hostesses. Mrs. Reuben H. Tucker, in charge of decorations, will be assisted by Mrs. Henry L. Calder and Mrs. Henry D. Hecklinger. Others assisting with the affair will be Mesdames Benjamin C. Chapla, Merlin O. Tyron, Glenn T. Pillsbury, Charles D. Folsom, Fariss Hardin, Frank O. Fischer, George W. Putnam, Charis R. Sparra, Arthur L. Meyer, and James A. Deaton.

Reservations for the luncheon may be made by calling Mrs. Charles D. Folsom, CL 6-5852 or Mrs. Fariss Hardin, CL 6-1144.

The **Washington Chapter of the Daughters of the U. S. Army** will hold its monthly meeting and luncheon at the Army and Navy (Town) Club on Monday, 2 February, beginning at 11:45 a.m. The Korean Ambassador will be the guest speaker.

Sheppard AFB, Tex.—New officers of Non-Commissioned Officers' Wives Club were installed 29 January. Veta Martin is President; Anita Tulin, First Vice President; Rhoda Strong, Second Vice President; Lola Posey, Secretary; Marcia Fowler, Assistant Secretary; Dorothea Hudson, Treasurer; and Rose Pipkin, Assistant Treasurer.

Col. Gross Leaves Ord

Col. Charles A. Gross, former law officer of General Courts-Martial, Ft. Ord, Calif., received a Certificate of Achievement from Maj. Gen. Carl F. Fritzsche, Commanding General, before his departure for assignment to New York City.

Col. E. C. Best, USNA '33, Gets Sperry Sales Post; Cdr. Hoover Leaves ONR

Col. Ethridge C. Best, USMCR-Ret., has been appointed Sales Manager, Sperry Microwave Electronics Company, Division of Sperry Rand Corporation, E. J. Venaglia, Division Manager, said Colonel Best, USNA '33, will direct the company's military and commercial sales activities.

From 1954 until joining the Sperry Microwave Electronics Company, Colonel Best had been with Sanders Associates, Nashua, New Hampshire, first as Assistant to the President and head of customer relations and from 1957 as Executive Assistant to the President and Deputy for Weapon System Planning. He retired in 1954, after more than 27 years active military service. From 1950 to 1953, he served as Director, Electronics Division, Navy Bureau of Aeronautics, Washington, D. C.



Colonel Best

Colonel Best and his wife, Florence, and their three daughters, Collette, Demaris and Charlene, reside at 350 Mehlenbacher Road, Belleair, Fla.

Cdr. George W. Hoover, who retired 1 January as Manager, Weapon Systems Air Branch, Office of Naval Research, has become Director of Technical Planning for the Benson-Lehner Corporation, it is announced by Bernard S. Benson, President of the Los Angeles electronics firm.

Commander Hoover has held a key position with the Office of Naval Research for the past six and one-half years, earned a Navy citation at the close of WWII for work in the problems of high-speed, high-altitude flight and the Space Flight Award by the American Astronautical Society, Inc., in 1956.

In his new civilian position he will serve as a member of the staff on basic research and formulate long range directions for the Benson-Lehner family of companies.

On 31 December 1958, Commander Hoover was awarded the Legion of Merit

for his "exceptional meritorious conduct while serving in the Office of Naval Research. . . ." The citation termed Commander Hoover "personally responsible for the initiation of Project Orbiter, a joint Army/Navy effort to place an earth satellite in orbit which later led to the development of Explorer 1, the United States first successful satellite."

The citation also formally credited him with having "brought to fruition a new concept of aircraft instrumentation that will permit safe and efficient all-weather flying . . ." and with devising adaptations of this in "man-machine systems" for use in undersea, surface and space ships.

Commander Hoover, who holds Navy Helicopter Pilot designation Number 10, is credited with a list of achievements, among them bringing the Martin-Baker ejector seat to the U. S., origination of Skyhook (the) high altitude plastic balloon project, design of the standard Link trainer, establishing Project Orbiter which led to Project Vanguard, and origination of the concept of integrated flight instrumentation and the standard ejectable capsule, according to a statement announcing his new post.

QUALITY SERVICE

Frank Prina, Deputy for Quality Assurance at the Army Signal Supply Agency, Philadelphia, has completed 40 years of Signal Corps military and civilian service.

Responsible for the Agency's acceptance of more than \$500 million worth of communications and electronics equipment annually, he received the Department of the Army's 40-year award last week from Col. Elmer L. Littell, Agency Commanding Officer.

During WW II, Mr. Prina was on active duty as a Major. He was Commanding Officer of the Newark Signal Corps Inspection Zone of the Signal Corps Inspection Agency and later became Assistant Signal Supply Officer at AFWESPAC (HDQRS) in Manila. He was separated as a Colonel.

M/G Maude Named Executive V.P.; Capt. Johansen Will Also "Keep Busy"

Maj. Gen. Francis H. Lanahan, USA-Ret., President of International Electric Corporation, Paramus, N. J., has announced the election of Maj. Gen. Raymond C. Maude, USAF-Ret., as Executive Vice President.



Maj. Gen. Maude

International Electric Corporation, a division of International Telephone and Telegraph Corporation, was formed recently to manage the production of a SAC world-wide electronic control System.

General Maude formerly served as Vice President and General Manager, Government Operations, with Allen B. Dumont Laboratories of Clifton, N. J. He retired in July 1956. General and Mrs. Maude, the former Bertha E. Schaltenbrand of Framingham, Mass., live at 533 Upper Boulevard, Ridgewood, N. J.

Capt. G. N. Johansen, USNA '29, has been relieved as Commanding Officer of the U. S. Naval Security Station, Washington, D. C., by Capt. D. I. Mather, USN, and will join Land-Air Incorporated as their Middle Atlantic States representative with offices in the nation's capital.

B/G Ford Leaves Aeronca

Brig. Gen. W. W. Ford, USA-Ret., has resigned as Vice President, Planning & Diversification of Aeronca Manufacturing Corporation, Middleton, Ohio.

President John A. Lambert said General Ford asked to be released in order that he may devote more time to other activities in which he is deeply interested.

RAdm. McCune Leads Virginia Beach Retired

RAdm. F. C. B. McCune, USN-Ret., is chairman of a new retired group organized in the Virginia Beach area. Others taking an active part are VAdm. R. O. Davis, USN-Ret., Col. John H. Fye, USA-Ret., and Cdr. Frank Dusch, USNR-Ret., Mayor of Virginia Beach.

Temporary officers, in addition to Admiral McCune, are appointed unanimously until the next meeting.

B/G Werner Retires

Retirement ceremonies were held 30 January at Ft McPherson, Ga., for Brig. Gen. Richard J. Werner, Third Army CofS.

He has been awarded the Silver Star, Legion of Merit, Bronze Star Medal with Oak Leaf Cluster, Purple Heart and Combat Infantryman Badge.

All-Service Sick Pay Tax Rule Issued, Thousands Of Disabled Retired Will Benefit

PRESSURED by what it reports as "numerous inquiries" from military people, the Internal Revenue Service has issued a comprehensive breakdown of which disability retired personnel can claim deductions of up to \$100 per week on the taxable portion of their retired pay.

Under Internal Revenue Service "sick pay" regulations, thousands of disability retired persons can claim the sizable tax deductions until they reach "retirement age." By filing revised returns, many will be able to receive Income Tax refunds as far back as 1955.

To claim the exemption, disability retired personnel do not have to have an additional illness or be hospitalized.

At the request of the Navy, "retirement age" was defined for Navy personnel in February 1958. This definition is revised in the publication of a set of retirement ages for all Services in Revenue Ruling 59-26, Internal Revenue Bulletin No. 4, dated 26 January 1959.

Until the new action by the Internal Revenue Service, there were no "retirement age" guides for the other Services.

It should be noted that retired military personnel cannot take advantage of the "sick pay" exemption on the taxable portion of their retired pay while they are employed by the Federal Government or any of its instrumentalities. They can secure the exemption, however, when they work for private employers or state or local governments.

The following are the final retirement age determinations as published by the Internal Revenue:

ARMY AND AIR FORCE

Enlisted: 30 years service, regardless of age; Warrant Officers, Male: 30 years service or age 62 with 20 years service, whichever is earlier; Warrant Officers, Female: 30 years service or age 55 with 20 years service, whichever is earlier; Commissioned Officers, Male: 40 years service; Air Force, or age 60, whichever is earlier; Commissioned Officer, Female: 30 years service, Lieutenant Colonels and above, Air Force; Commissioned Officers, Female: 28 years service, Nurse Majors and below; Commissioned Officers, Female: 25 years service, other Majors and below.

NAVY, INCLUDING MARINE CORPS

Enlisted: 30 years service regardless of age; Warrant Officers, Male: 30 years service or age 62 with 20 years service whichever is earlier; Warrant Officers, Female: 30 years service or age 55 with 20 years service whichever is earlier; Commissioned Officers, Male: 40 years service or age 62, whichever is earlier; Commissioned Officers, Nurses: 30 years service or age 55, whichever is earlier,

Two Retired Three-Stars Join San Antonio Chapter

Col. Robert E. Joseph, USA-Ret., Commander of the San Antonio Chapter, Military Order of the World War, has announced appointment of Chapter members Brig. Gen. Herbert S. Clarkson, USA-Ret., and Col. Al Deutsch, USA-Ret., as Delegate-at-Large and 8th Regional Director, respectively, of the National Headquarters of the Order.

Maj. Gen. Percy W. Clarkson, USA-Ret., another Chapter member, recently was named Chairman of the Board of the National Bank of Fort Sam Houston.

New members welcomed at the January meeting of the San Antonio Chapter were Lt. Gen. John H. Collier, USA-Ret., and Lt. Gen. David M. Schlatter, USAF-Ret.

AF Honors Army Assn. V-P

Samuel F. Downer, National Vice President of the Association of the U. S. Army and Vice President of the Exchange National Bank, Colorado Springs, Colo., has received the Air Force's highest civilian decoration for "presenting to the public the problems of the Air Force, particularly those dealing with personnel retention."

The Air Force said Mr. Downer "continues to work zealously and enthusiastically for a better public understanding of the military mission and the promotion of harmonious relations between the organizations and activities of various services."

PL 810 Retirements

The Army has placed the following named National Guard and Reserve officers on the retired list upon their attainment of age 60 and completion of at least 20 years creditable service provided under Title III, PL 810, 80th Congress:

Brig General

Cook, James W

Colonel

Walker, Enos G Fritschler, John C
Plyley, R C, NG Wood, Glen B
Tiede, Joseph W Newton, William H
Carleton, Charles D Mackenzie, Douglas C
Wilson, Aubrey A Berle, Charles H
Kaufman, Russell H Schroeder, Frederic
Younts, Paul R, NG Holder, Hall G

Lt Colonel

Royce, James D Allen, James R, NG
Nathanson, Nathaniel Doten, Henry L
Anderson, Carl E Lewis, Bernard M
Henderson, M G Shumaker, C A
Anderson, A C, NG Forster, Errol J

Major

Alexander, Earle L

Captain

Adams, Joy C Olind, John H
Agarter, Harry M Wessa, Edwin L
Rose, Cyril C Gatton, James W
Also retired under PL 810:
Aguilar, Sfc Jose C, NG

Lt. Lee New Williams ISO

New Information Services Officer at Williams AFB, Ariz. is 1/Lt. Richard C. Lee, formerly Director of Public Information in the OIS at Twelfth Air Force Headquarters.

Williams' former ISO Capt. Wilson Lee, was assigned as ISO to TAC's 4504th Missile Training Wing at Orlando AFB, Fla., last October.

Lieutenant Lee and his wife, Corrinne, have three daughters.

Births • Marriages • Deaths

(No charge for Service announcements. Please print all names.)

Born

ALDERSON—Andrews AFB, DC 24 Dec Lt Col and Mrs Sam W Alderson, son.
ALLEN—Wright-Patterson AFB, O 31 Dec Capt and Mrs Milton E Allen, daughter.
ALMONRODE—Andrews AFB, DC 25 Dec Cdr and Mrs Roland Almonrode, daughter.
AMORT—Wright-Patterson AFB, O 25 Dec 1st Lt and Mrs Paul R Amort, twin son and daughter.
ANDERSON—Neubucke/Nahe, Germany 12 Jan Sp5 and Mrs Walter E Anderson, daughter, Julia Maxwell.
ANGIER—WRAH, Washington, DC 18 Jan Lt (Jg) and Mrs Edward H Angier, son.
ASCHWALD—Vicenza, Italy 9 Jan Capt and Mrs Howard B Aschwald, son, Paul W.
ASH—Ft Jackson, SC 11 Jan 1st Lt and Mrs Oliver R Ashe, daughter, Mary Patricia.
BALILLES—WRAH, Washington, DC 21 Jan 1st Lt (USAF) and Mrs Roy K Balilles, twin daughters.
BASNETT—Vicenza, Italy 8 Jan Sfc and Mrs Jack H Basnett, son, Dennis H.
BATSCHKE—Ireland AH, Ft Knox, Ky 8 Jan Capt and Mrs Frank Batschke, daughter, Margaret Ann.
BAXTER—Dreux, France 15 Jan S/Sgt and Mrs Billy G Baxter, 7306th CamRon, APO 84, NY, son, Daniel W.
BLACKSHEAR—Ft Polk, La 30 Dec 2d Lt and Mrs Thomas R Blackshear, son, Thomas Richard, Jr.
BOAZ—Ft Leonard Wood, Mo 9 Jan 1st Lt and Mrs Charles A Boaz, daughter, Jeralyn Patricia.
BOICE—Brooke AH, Ft Sam Houston, Tex 31 Dec 1st Lt and Mrs Russell T Boice, son.
BOYER—DeWitt AH, Ft Belvoir, Va 21 Jan Capt (USAF) and Mrs Joseph A Boyer, Jr., son.
BRIAN—Ft Campbell, Ky 23 Dec Capt and Mrs Patrick M Brian, 123 B Wherry, Ft Campbell, son, Robert Matthew, grandson of Col (Ret) and Mrs A A Brian, Tucson, Ariz.
BROWN—Neubucke/Nahe, Germany 12 Jan Sp5 and Mrs John F Brown, daughter, Donna Marie.
CALDWELL—West Point, NY 19 Jan Maj and Mrs William B Caldwell, 3d, daughter, Theresa Lee.
CARE—DeWitt AH, Ft Belvoir, Va 17 Jan Capt (USAF) and Mrs Gerald W Carr, son.
CHAMBERS—Wright-Patterson AFB, O 23 Dec Capt and Mrs James S Chambers, son.
CHANG—Ft Ord, Calif 9 Jan Capt and Mrs Winfred Y K Chang, daughter, Sally MullaokamaLu.
CHIMIAK—Andrews AFB, DC 13 Jan Cdr and Mrs Walter Chimiak, daughter.
COE—Andrews AFB, DC 6 Jan Capt and Mrs Stewart Coe, daughter.
COOGAN—DeWitt AH, Ft Belvoir, Va 19 Jan Maj and Mrs Vincent F Coogan, daughter.
COTTON—Neubucke/Nahe, Germany 14 Jan Sp4 and Mrs Lewis A Cotton, daughter, Angela Kay.
COYLE—Patterson AH, Ft Monmouth, NJ 24 Jan Capt and Mrs Francis J Coyle, Jr., 29 Steven Ave, New Shrewsbury, NJ, daughter.
CHURCHILL—Ft Sill, Okla 18 Jan 1st Lt and Mrs Ralph T Churchill, daughter.
COOPER—Vicenza, Italy 8 Jan Sfc and Mrs Clarence C Cooper, son, Dennis N.
COWLES—Ft Leonard Wood, Mo 12 Jan 1st Lt and Mrs Phillip R Cowles, daughter, Mary Louise.
CRAFT—Andrews AFB, DC 29 Dec 1st Lt and Mrs Richard L Craft, son.
CRAVEN—Andrews AFB, DC 30 Dec Capt and Mrs C John Craven, daughter.
CROSS—Wright-Patterson AFB, O 30 Dec Capt and Mrs Carl S Cross, daughter.
CUTTER—DeWitt AH, Ft Belvoir 16 Jan Capt and Mrs William S Cutter, daughter.
DAILY—Ft Dix, NJ 9 Jan Capt and Mrs Ralston B Daily, son, Michael Ross.
DAVIS—Andrews AFB, DC 11 Jan Capt and Mrs William H Davis, daughter.
DE ROUEN—Vicenza, Italy 7 Jan 1st Lt and Mrs Milton De Rouen, Jr., son, Roderic S.
DERRICK—Neubucke/Nahe, Germany 12 Jan Sp5 and Mrs William A Derrick, daughter, Linda Jo.
DORAN—DeWitt AH, Ft Belvoir, Va 18 Jan Maj (USAF) and Mrs Francis R Doran, daughter.
DOWNEY—Ireland AH, Ft Knox, Ky 8 Jan Capt and Mrs Oliver Downey, daughter, Cynthia Jo.
EDWARDS—Andersen AFB, Guam, MI 11 Jan S/Sgt and Mrs Barry C Edwards, daughter.
ENGLISH—DeWitt AH, Ft Belvoir, Va 16 Jan Col and Mrs John T English, daughter.
EVANS—Neubucke/Nahe, Germany 12 Jan Sfc and Mrs Bobby J Evans, daughter, Desire Elaine.
FLORY—Lawton, Okla 13 Jan 1st Lt and Mrs Robert A Flory, 1412 Spaulding Ave, Ft Sill, son, David Bruce, grandson of Brig Gen (USA, Ret) and Mrs Lester D Flory, Chevy Chase, Md, and of Col and Mrs Andrew Samuels, Ft Meade, Md.

SECRETARY BRUCKER'S PASSENGER A FATHER

The Journal reported in the issue of 17 January how Secretary of the Army Wilber M. Brucker, en route to Ft. Leavenworth, Kans., had given a lift in his aircraft to PFC Leland N. DeVore of Ft. Belvoir, Va., who was "hitch-hiking" home to Des Arc, Ark., for the birth of a first child.

PFC DeVore advises us that his wife, Virginia, gave birth to a girl, Virginia Denise DeVore, 8 pounds, 12 ounces, on 15 January, the night after his return from Belvoir on the Secretary's plane.

Secretary Brucker's "Assist" to PFC and Mrs. DeVore is the kind of story we are pleased to relate to the Services.

FOLEY—Andrews AFB, DC, 14 Jan 1st Lt and Mrs Robert D Foley, son.
FORD—Andrews AFB, DC 29 Dec Capt and Mrs James E Ford, son.
FOX—Wright-Patterson AFB, O 19 Dec 1st Lt and Mrs Ben R Fox, son.
GIBBONS—Dreux, France 17 Jan S/Sgt and Mrs Kenneth F Gibbons, 317th SupRon, APO 253, NY, daughter.
GRAY—Ft Sill, Okla 16 Jan 1st Lt and Mrs Wilmar O Gray, twins, son and daughter.
GREER—Sheppard AFB, Tex 10 Jan 1st Lt and Mrs Arthur E Greer, son, Daniel Scott.
GRIMES—Maxwell AFB, Ala 9 Jan Maj and Mr R Z Grimes, daughter, Jennifer Louise.
GUNNELS—Andrews AFB, DC 9 Jan 1st Lt and Mrs Thomas Gunnels, son.
HAGERTY—Quantico, Va 20 Jan 1st Lt and Mrs Roger C Hagerty, son, Lars Christopher.
HALLEY—Andersen AFB, Guam, MI 13 Jan 1st Lt and Mrs Edward M Halley, Jr., son.
HANSON—Ft Leonard Wood, Mo 15 Jan CWO and Mrs James B Hanson, daughter, Andrea Elisabeth.
HEIPP—Ft Leonard Wood, Mo 16 Jan 2d Lt and Mrs William A Heipp, son, William Albert, Jr.
HINCKEY—Dreux, France 18 Jan 1st Lt and Mrs Fred R Hincley, 11th Trp CaRon, APO 84, NY, daughter, Terri A.
HUDSON—Ft Carson, Colo 9 Jan 1st Lt and Mrs Charles Hudson, Qtrs 7334-B, Ft Carson, son.
HUNTER—Ft Eustis, Va 16 Jan WO and Mrs Carl M Hunter, daughter.
JAUREGUI—Ft Ord, Calif 8 Jan Lt and Mrs Stephen Jauregui, Jr., daughter, Theresa Marie.
JERMAN—Andersen AFB, Guam, MI 16 Jan 2d Lt and Mrs Robert G Jerman, son.
JOHNSON—Lackland AFB, Tex 15 Jan Capt and Mrs Ronald Johnson, 270 W Globe St, Lackland AFB, son.
JOHNSTON—Cherry Pt, NC 5 Jan 1st Lt (USMC) and Mrs Carl B Johnston, daughter, Deborah Ann.
JOHNSTON—Brooke AH, Ft Sam Houston, Tex 5 Jan Lt Col and Mrs Donald N Johnston, daughter.
KEEHLER—Andersen AFB, Guam, MI 15 Jan T/Sgt and Mrs Conrad D Keehl, son.
KEKOA—Ft Carson, Colo 13 Jan Lt Col and Mrs Curtis Kekoa, 2014 Eagle View, Colorado Springs, son.
KIEHL—Wright-Patterson AFB, O 31 Dec 1st Lt and Mrs Kent R Kiehl, daughter.
KIRKWOOD—Sheppard AFB, Tex 10 Jan 2d Lt and Mrs Donald Dean Kirkwood, son, Curtis Matthew.
KROG—WRAH, Washington, DC 22 Jan 2d Lt (USAF) and Mrs Joel T Krog, daughter.
LADIN—Wright-Patterson AFB, O 29 Dec Capt and Mrs Eugene Ladin, daughter.
LANE—Ft Sill, Okla 14 Jan 2d Lt and Mrs Glenn A Lane, son.
LEE—Patterson AH, Ft Monmouth, NJ 15 Jan 2d Lt and Mrs Wayne B Lee, 61 So Broadway, Long Branch, NJ, daughter.
LEUTHARD—Vicenza, Italy 7 Jan Sfc and Mrs Henry T Leuthard, son, Darwyn H.
LINN—Fitzsimons AH, Denver 21 Jan Maj (USAF) and Mrs Howard A Linn, daughter.
LIPPOLDT—WRAH, Washington, DC 18 Jan Lt (Jg) (USPHS) and Mrs Roland E Lippoldt, son.
LLOYD—Cherry Pt, NC 9 Jan Capt (USMC) and Mrs James F Lloyd, daughter, Diane Elaine.
LOWNDS—Quantico, Va 21 Jan Lt Col and Mrs David E Lownds, son, Steven David.
MACKEY—DeWitt AH, Ft Belvoir, Va 18 Jan 1st Lt and Mrs John F MacKay, daughter.
MAENA—Andrews AFB, DC 4 Jan 1st Lt and Mrs Richard G Maena, daughter.
MANGAN—Patterson AH, Ft Monmouth, NJ 17 Jan Maj and Mrs Bruce J Mangan, 7 Turner St, Eatontown, NJ, son.

MARRERO—Ft Eustis, Va 19 Jan 2d Lt and Mrs Domingo E Marrero, daughter.
MARTIN—Plattsburgh AFB, NY 17 Jan Maj and Mrs Gene S Martin, Cumberland Head, Plattsburgh, NY, daughter, Merida.
MCCOOL—Ft Sill, Okla 14 Jan 1st Lt and Mrs James M McCool, son.
McDONOUGH—Ft Sill, Okla 20 Jan Maj and Mrs Miles V McDonough, daughter.
MORGAN—Vicenza, Italy 7 Jan Sgt and Mrs George E Morgan, son, Gyle Lee.
MORRIS—Ft Carson, Colo 13 Jan CWO (Ret) and Mrs John Morris, Rt 3, Box 147, Colorado Springs, daughter.
MUHS—Andrews AFB, DC 24 Dec Capt and Mrs Robert K Muhs, son.
MULLER—Bad Canstatt, Germany 2 Jan Lt (USA) and Mrs Walter J Muller, Jr., a son, John Harold; grandson of Maj General (USA-Ret) & Mrs Muller, sr, 1800 Black Mountain Rd, Hillsborough, Calif, and of Mr & Mrs J H Mulherlin, sr, Savannah, Ga.
MURPHY—Quantico, Va 21 Jan 1st Lt and Mrs Donald F Murphy, daughter, Margaret Marie.
O'HARA—Cherry Pt, NC 4 Jan 1st Lt (USMC) and Mrs John A O'Hara, son, Kevin John.
ORB—Patterson AH, Ft Monmouth, NJ 13 Jan Lt (USN) and Mrs John M Orr, 349 South Lincoln Ave, Oakhurst, NJ, daughter.
PANSKA—Quantico, Va 19 Jan Maj and Mrs Donald A Panska, daughter, Pamela Andrea.
PARTON—Neubucke/Nahe, Germany 14 Jan Spr and Mrs Jerry D Parton, son, Jerry Dean, Jr.
PASCAL—Andrews AFB, DC 5 Jan 2d Lt and Mrs David R Paskale, son.
PAWLOWSKI—DeWitt AH, Ft Belvoir, Va 17 Jan Maj (USAF) and Mrs William J Pawlowski, daughter.
PEARCE—Cp LeRoy Johnson, La recently 2d Lt and Mrs William E Pearce, daughter.
PHOPHET—Ft Sill, Okla 17 Jan Capt and Mrs Matthew W Phopphet, son.
PRICE—Ft Dix, NJ 17 Jan Maj and Mrs Wallace W Price, daughter, Catherine Ann.
RAPKOCH—Vicenza, Italy 8 Jan 1st Lt and Mrs Michael R Rapkoch, son, Michael R.
REED—Ft Eustis, Va 16 Jan Capt and Mrs Max E Reed, daughter.
RICHARDS—Ft Dix, NJ 16 Jan Capt (USAF) and Mrs George W Richards, son, Harry Willson.
RITCHIEY—Andrews AFB, DC 16 Jan Maj and Mrs Walter L Ritchey, son.
ROGERS—Ft Polk, La 14 Jan 1st Lt and Mrs Norvel G Rogers, son, Randall Eugene.
SALVATORE—WRAH, Washington, DC 21 Jan Capt and Mrs Joseph E Salvatore, son.
SANDMAN—Maxwell AFB, Ala 9 Jan Lt Col and Mrs G K Sandman, son, Richard Nelson.
SCHIFFMAN—Ft Polk, La 23 Dec Capt and Mrs Zachary Schiffman, daughter, Mara Suzanna.
SCHMIDT—Andrews AFB, DC 17 Jan Lt and Mrs Ben Schmidt, daughter.
SHANAHAN—Quantico, Va 12 Jan 2d Lt and Mrs John K Shanahan, a son, Morris Philip.
SHEARIN—Fitzsimons AH, Denver 20 Jan 1st Lt (USAF) and Mrs Ronald L Shearin, daughter.
SILVERSTEIN—Andersen AFB, Guam, MI 9 Jan 1st Lt and Mrs Jack Silverstein, daughter.
SMALLEY—Quantico, Va 21 Jan 1st Lt and Mrs David P Smalley, son, David Peter.
SMITH—Brooke AH, Ft Sam Houston, Tex 5 Jan Capt and Mrs Perry C Smith, daughter.
STEPHENS—Ireland AH, Ft Knox, 13 Jan 2d Lt and Mrs Donald L Stephens, son, Scott Alan.
SUTTON—Andrews AFB, DC 20 Jan 1st Lt and Mrs Meredith S Sutton, daughter.
TALKINGTON—Patterson AH, Ft Monmouth, NJ 17 Jan 2d Lt and Mrs Thomas E Talkington, 129 Court Dr, Shrewsbury, NJ, son.
TEHNAGEN—Ft Ord, Calif 13 Jan Lt Col and Mrs Carl B Tehnagen, daughter, Carol.
TOYE—Ireland AH, Ft Knox, Ky 13 Jan 2d Lt and Mrs John E Toye, son, Martin Earle.
VANDEN BOSCH—Madison, Wis 4 Dec Lt and Mrs Jon Conrad Vanden Bosch, daughter, Anne Frances.
VINCENT—Andersen AFB, Guam, MI 12 Jan Capt and Mrs Maurice G Vincent, son.
VON DER HEYDE—Quantico, Va 21 Jan Maj and Mrs Henry A F von der Heyde, Jr., daughter, Lisa Claire.
WELCH—WRAH, Washington, DC 15 Jan Cdr and Mrs Raymond V Welch, son.
WILSON—Neubucke/Nahe, Germany 12 Jan Sfc and Mrs Johnnie W Wilson, son, William Howard.
WINDSOR—Quantico, Va 22 Jan Lt Col and Mrs John J Windsor, son, Jeffrey Randall.
WYSOCKI—Lackland AFB, Tex 18 Jan Capt and Mrs Donald Wysocki, 226 Rolling Green, Lackland AFB, son.
YOUNGBLOOD—Neubucke/Nahe, Germany 15 Jan Sp4 and Mrs Connie E Youngblood, daughter, Deborah Christine.

Married

HARRIS-LESTER—Louisville, Ky 13 Jan Mrs Mildred White Lester, widow of Maj Gen James Allen Lester, USA, and Col John

Easter Harris, USAF-Ret, (USMA '15). At home 4501 Connecticut Ave, NW, Washington, DC, after 1 Mar.
BUSH-LAWDER—The David Adams Memorial Chapel, Naval Base, Norfolk, Va 24 Jan Miss Patricia Lawder, daughter of Cdr (USN) & Mrs Hervey C Lawder of New York, and Lt(jg) Stanley Whitten Rush, 3d, USNR, son of Mr & Mrs Rusk, Jr, Haddonfield, NJ.
TIPPITT-PRICHARD—Post Chapel, Ft Myer, Va 24 Jan Miss Carlotta Prichard, daughter of Mrs Vernon E Prichard of Washington, DC and the late Major General Prichard, USA, and Mr Willis Paul Tippitt, Jr, son of Mr & Mrs Tippitt, sr, of Crawfordville, Ind.

Died

BECKER—Died Bloomfield, NJ 18 Dec Maj John R Becker, Ret.
BONNER—Died 19 Jan 1st Lt Samuel James Bonner, USMC-Ret. Survived by his widow, Mrs Margaret D Bonner, 5077 Bradley Blvd, Chevy Chase, Md. Burial Arlington National Cemetery, Washington, DC.
BRASS—Died Crystal River, Fla 6 Jan Maj Thomas Brass, Ret.
BRAUNSTEIN—Died 30 Nov Maj William Braunstein, MC-Ret.
BRIGGS—Died Iron Mountain, Mich 15 Dec CWO Rexford Briggs, USA-Ret.
BRIGHTBILL—Died 5 Nov Lt Col Floyd G Brightbill, Ret.
CORBETT—Died 23 Jan Lt Laurence J Corbett, USN.
COSTELLO—Died 13 Dec Capt John W Costello, Ret.
CROKER—Died Scott AFB, Ill 13 Jan Maj Edgar Croker, Ret.
CURTIS—Died Madisonville, Ky 11 Jan Capt Carl B Curtis, CHC-Ret.
DIETZ—Died 17 Nov WO(jg) William H F Dietz, AUS-Ret.
EVANS—Died Schenectady, NY 26 Jan Mrs Annina McCrory Evans, 73, wife of Capt Joseph S Evans, USN-Ret. Also survived by one son, Mr J S Evans, Jr, Washington, DC; and two daughters, Mrs Carl G Estabrook, Arlington, Va & Miss Ruth Anne Evans, Schenectady.
GARDNER—Died Cheyenne, Wyo 8 Dec Lt Col Lester E Gardner, Ret.
GENT—Died Travis AFB, Calif 11 Dec Lt Col William F Gent, USA-Ret.
GORDON—Died Nashville, Tenn 28 Dec Lt Col Donald R Gordon, Ret.
HANSEN—Died 25 Jan CWO-4 Peter A Hansen, USN.
HEDEKIN—Died Walter Reed AH, Washington, DC 25 Jan Mrs Adelaide Drew Hedekin, widow of Brig Gen Charles A Hedekin, USA; and mother of the late Brig Gen Thomas B Hedekin, USA, & of the late Capt David D Hedekin. Burial Arlington National Cemetery.
HESTER—Died in the crash of an Army helicopter at the foot of Pacheco Peak, Calif, 17 Jan WO David P Hester, 33, of the 33d Transportation (L) Co, 52d Transportation Battalion, Ft Ord, Calif. Survived by his widow, Mrs Mable I Hester, Marina, Calif; and his four children, Mable Diane Hester, 14; Cora Ruth Hester, 12; Betty Jo Hester, 11, and Jeanette Ellen Hester, 10.
HISSEM—Died Ft Hood, Tex 9 Jan Capt Garrell G Hissem, Ret.
HUNT—Died in the crash of an Army helicopter at the foot of Pacheco Peak, Calif, 17 Jan WO Junior W Hunt, 33, of the 33d Transportation (L) Co, 52d Transportation Battalion, Ft Ord, Calif. Survived by his widow, Mrs Nita Hunt, 554 No 15th St, San Jose, Calif; two children, Debra S, & Renee J Hunt, 6; and his father, Mr W B Hunt, 213 Pueblo Ave, Modesto, Calif.
LANGHAUSER—Died 24 Jan Ens Robert G Langhauser, USN.
LEONARD—Died 17 Oct Col Nelson J Leonard, Ret.
LESKIN—Died 29 Dec Maj Chester A Leskin, Ret.
LODEN—Died Albuquerque, NMex 23 Dec Lt Joseph Daniel Loden, USCG-Ret. Survived by his widow, Mrs Gayle S Loden, 2606 Mesa Linda Dr, NE, Albuquerque.
LUNDBERG—Died 19 Nov 1st Lt Chauncey K Lundberg, Ret.
MATHEWS—Died of a coronary thrombosis in Thailand 10 Jan Maj Edwin J Mathews of the US Army Military Advisory Group to the Thai Army. He is survived by his widow, Mrs Myrtle Lane Mathews; and two daughters, Carolyn & Barbara Mathews. Burial Arlington National Cemetery, Washington, DC.
McELDUFF—Died USNH Philadelphia 21 Jan Radm John V McElduff, USN-Ret, (USNA '20), 60.
MELLO—Died Otis AFB, Mass 6 Jan Maj Anthony Mello, Ret.
MILLER—Died 22 Nov Maj Harry B Miller, Ret.
MOZZONE—Died 27 Nov Capt Mario P Mozzone, Ret.
NEWTON—Died 25 Dec Lt Col Julius C Newton, Ret.
NIX—Died Alpharetta, Ga 6 Jan Lt(jg) William Aubrey Nix, USCG-Ret. Survived by his widow, Mrs Ollie May Nix, Rt 3, Alpharetta.
NORTHAM—Died of a heart condition at Tallahassee, Fla 20 Jan Col Thomas A

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Northam, USA-Ret, 62, veteran of both World Wars. Survived by his widow, Mrs Ester Cozad Northam, 519 Ingleside Ave, Tallahassee; and one son, Lt(jg) T A Northam, Jr, stationed aboard the USS Miller with the Atlantic Fleet, Burial Arlington National Cemetery, Washington, DC.

PENNINGTON—Died 12 Nov 2d Lt Walter S Pennington, AUS-Ret.

ROVINSKY—Died Eustis, Fla 23 Jan Cdr Stanley Rovinsky, USCG-Ret. Survived by his widow, who may be reached at PO Box 553, Mt Dora, Fla.

SCHOFIELD—Died USNH, Bethesda, Md 23 Jan Cdr Albert Richardson Schofield, USN-Ret, USNA '17, 64. Survived by one son, Mr Albert R Schofield, Jr. Burial Arlington National Cemetery, Washington, DC.

SCHROEDER—Died Long Beach, Calif 20 Jan Maj Henry Frank Schroeder, 84, who was a bugler at San Juan Hill, sounded the charge there in the Spanish-American War, and in 1900 in the Philippine Insurrection was awarded the Medal of Honor for leading a unit of 22 men who defeated a force of 400 insurgents. He was among the Medal of Honor winners who served as honorary pallbearers last Memorial Day for the Unknown Soldier of WWII. Survived by his widow, Mrs Pearl Schroeder of Long Beach. Burial Ft Rosecrans National Cemetery.

SHERBAUM—Died 11 Dec Col Emil R Sherbaum, Ret.

SHUDER—Died 24 Oct Col Harry A Shuder, ChC-Ret.

SMITH—Died 29 Dec 1st Lt Jennie A Smith, ANC-Ret.

SMITH—Died Walter Reed AH, Washington, DC, 18 Jan Lt Col Orvil T Smith. Burial Greensboro, NC.

SOLOMON—Died Madigan AH, Tacoma, Wash 22 Jan Lt Col Carl Solomon, 50. Survived by his widow, Mrs Delano Solomon; and two sisters, Mrs Samuel Mosher, Oak Park, Mich, & Mrs Arthur Goldbarg, St Paul, Minn. Burial Arlington National Cemetery, Washington, DC.

SPENGLER—Died 2 Jan Col Jacob H Spengler, Ret.

STRADER—Died 30 Nov Col Simon E Strader, MC-Ret.

TYLER—Died Seattle 20 Jan Capt Gaines Albert Tyler, USCG, 55, Commander, 17th Coast Guard District. Survived by his widow, Mrs Jessie Lee Tyler, 5420 Crestwood Rd, Fountain City 18, Tenn, and two sons, G A Tyler, Jr, & Thomas R Tyler. Burial Arlington National Cemetery, Washington, DC.

VELZ—Died Bay Pines, Fla 19 Dec Capt Robert Velz, USN-Ret, 78. Survived by his widow, who lives at 1807 Sunset Dr, Clearwater, Fla. Burial Sylvan Abbey Memorial Park, Pinellas County, Fla.

VEY—Died 25 Jan Lt(jg) Jay S Vey, USNR.

Four Killed in Navy Crash

Navy authorities have announced that a Navy seaplane with a 10-man crew plunged into the water off Norfolk, Va., 27 January, and four members of the crew were lost. They included the pilot, Cdr. Robert Murphy; the co-pilot, Lt. Cdr. Sherman Cagle; another co-pilot, Lt. (jg) David H. Utter; and Lyle V. Knudson.

Gold Leaves For 32 In S.O. 15

THE Army has promoted 32 captains to temporary major in S. O. 15, effective 22 January. Cutoff date was 30 December 1950. The junior officer had 144 months and 27 days active Federal commissioned service as of 30 June 1958, with Promotion List Number 12033 in the 1958 Army Register.

Agnor, T J, Jr, OrdC	Edwards, S O, Arm	McDonough, J D H,	Terrell, H A, Jr, Arty
Baumgartner, J S,	Fischer, J C, OrdC	Arty	Troy, G K, Arm
SigC	Friend, H C, SigC	Otte, G F, Jr, Arm	Tucker, H W, QMC
Beasley, R W, Jr,	Hallgren, H E, Arty	Parker, W C, Arty	VanAuken, K C,
Arty	Hazzard, R P, Arty	Pence, W F, CE	OrdC
Convey, J E, Jr, Arty	Johnson, R A, QMC	Rouillard, I G, JAGC	Watkins, N C, QMC
Day, J A, Arm	LaRock, R I, Arty	Sheffer, G E, Jr, OrdC	Weber, E L, Jr, Arty
DeLong, W J, Jr,	Lincoln, W T, SigC	Simmons, C J, Arm	Winfree, R T, Jr,
Arty	Lochrie, A F, Jr, Arm	Stirling, H J, SigC	Arty
Dixon, J T, Arty	McCue, E F, QMC		

Army Makes 33 Captains In S.O. 15

THE Army has named 33 more first lieutenants for promotion to temporary captain from selections made by a board which adjourned 15 November 1958. The new list, reported in S. O. 15, effective 22 January, has a cutoff date of 26 February 1954.

Absher, R L, QMC	Chesebrough, D,	Irvin, L, Inf	Satterley, E O, OrdC
Ashby, R R, Inf	CmiC	Jorgenson, R E, Arty	Schallencmuller, J A,
Bahr, H J, Arty	Croxford, E R, QMC	Joubert, J R, TC	Arty
Barrick, R O, QMC	Ferguson, W H, Jr,	Lollar, L S, SigC	Shallcross, G W, Arm
Barton, W E, SigC	TC	McCue, E K, SigC	Tanch, R A, CE
Bridgman, E N, Jr,	Fleming, J A, Inf	Peacock, G H, QMC	Walsh, T J, Arty
QMC	Hair, R B, Arty	Perez-Perez, P L, Inf	Washington, S, QMC
Brown, J D, QMC	Hardegree, J P, Arm	Pigler, J E, Inf	Wells, P H, Arm
Cain, J W, Arty	Hogan, W C, 3d, CE	Russell, L, CE	Willner, E H, QMC
	Imhof, J D, Inf		

Col. J. J. Wilson Wins Transport Award

Col. Jasper J. Wilson, Deputy Assistant G-3, Army Section of the Joint U. S. Military Mission for Aid to Turkey, has been awarded the 1958 National Transportation Award for the year's outstanding contribution to Defense Transportation.

Presentation of the Certificate and Plaque was made at a formal ceremony in Ankara recently by Maj. Gen. Armistead D. Mead, Mission Chief, and Col. P. L. Rehmann, Commander of the U. S. Logistics Group Detachment 33.

The award was based on a study Colonel Wilson supervised and conducted on the Army's need for wheeled transportation, and of the ability of standard and developmental types of vehicles to satisfy this need.

The study resulted in the submission by 10 manufacturers of a design of a vehicle which will give to the military forces a new family of wheeled vehicles.

Colonel Wilson is married to the former Evelyn Gregory of Neosho, Mo. He has three children, Carrol, 18; Christiae, 11; and Jasper J., Jr., 8.

B. G. Robinett Relates North Africa Campaign

"Armor Command," a story of U. S. armored operations in North Africa during WW II, has been published by the U. S. Armor Association.

Written by Brig. Gen. Paul Robinett, USA-Ret., who served with the 1st Armored Division in WW II, the book traces General Robinett's command from Ft. Knox, Ky., through the end of the North African campaign. Much material is taken from official records and talks with both Allied and German commanders.

The 252-page volume is available from the Association at 1757 K Street, N.W., Washington 6, D. C., for \$3.95 per copy.

Army Promotes Eight To Temp. CWO-4

The Army in S.O. 18, effective 27 January, has promoted the following CWO W-3's to temporary CWO W-4. The promotions extended through Sequence No. 137 in DA Circular 624-26, dated 26 June 1958.

Aylard, J J, (AGC)	McIntire, A H, (MSC)
Candee, G, (AGC)	Miller, J T, (QMC)
Carter, J H, sr,	Pollard, M E, (QMC)
(AGC)	Widener, T F, (AGC)
Knapp, V A, (AGC)	

JOB WELL DONE. Maj. Gen. John J. Binns, Sixth Army Chief of Staff, pins an Oak Leaf Cluster to the Commendation Ribbon on Col. William H. Van Dine, Chief of Supply Division, Sixth Army Quartermaster, for a job well done while he was stationed in Japan. Mrs. Van Dine is a pleased spectator at the ceremony held in General Binns' Office at the Presidio of San Francisco.



Services Have Not Made Utmost Use Of R&D Resources, NSIA Is Told

DESPITE dedicated attention and zeal, officers of the Armed Services have not been able to get the best results from the Nation's research and development resources, Dr. Mervin J. Kelly, Chairman of the Board of Bell Telephone Laboratories, told the National Security Industrial Association meeting in Washington, D. C. on 29 January.

Dr. Kelly declared that the officers of the Armed Services "have not been able to develop a planning, placement, coordination and administrative structure that permits realization of results of the quality and quantity that the Nation's research and development community is capable of by a wide margin."

He said several factors contribute to the inability to develop acceptable R & D organizations.

Dr. Kelly said he believed the most limiting factor "is the incompatibility of the requirements for developing top-flight scientists and technologists and top flight military commanders."

"You cannot combine both requirements in building either a top-flight commander or a top-flight scientist or technologist" he said.

"The necessary rotation of assignments of young officers as they are developed makes impossible the simultaneous development of top level professional capacity in research and development. Their movement through assignments makes it impossible for them to gain the expertness required in the different areas of science or technology and the succession of officers that follow each other through a position results in its performance with often much less effectiveness than it must have."

"This management and decision area of research and development requires the best talent that is in our society. Such talent, in my judgment, cannot be developed under the circumstances."

Another reason for inadequacies in Armed Forces R & D organizations, Dr. Kelly said, is the competitive struggle between the three services.

"I believe," he said, "that its detrimental effects are greater in the research and development area than in any other government operation."

"The growing concern of our society about bigness when applied to industrial corporations also has its ill effects here," Dr. Kelly continued. "Our society's increasing emphasis on this is limiting the freedom of choice of the military in its placements in the civilian economy. That freedom is now less than it was five years ago with resulting lowering of the effectiveness of our program."

"The environment of a part military, part civilian organization, such as we have in military research and development administration, coupled with the pay levels and some civil service regulations, makes it impossible to obtain and hold the proportion of the Nation's very best scientific and engineering minds that this operation requires and must have. Attempts to compensate for this by the use of standing committees and ad hoc groups of such men from the civilian economy, while to a degree helpful, are not an adequate solution."

On the brighter side, Dr. Kelly pointed to the "splendid legislation of the last Congress" which established the Office of the Director of Research and Engineering with "adequate responsibilities and authorities gives an opportunity for a fresh approach that we must not miss."

The recently created office, he said, "may be the beginning of an evolution towards much greater effectiveness. It may be our last chance."

WINS FORRESTAL MEDAL

Dr. Kelly received the National Security Industrial Association's highest honor—the James Forrestal Memorial Award.

The presentation was made by H. Struve Hensel, Award Committee Chairman, at the NSIA awards banquet held at the Sheraton Park Hotel.

In receiving the medal, Dr. Kelly joins President Eisenhower, General Alfred M. Gruenther and Admiral Arthur W. Radford, who, in the past, have been similarly honored for their "distinguished service to National Security."

Special "Contingency" Insurance Announced

A special insurance plan designed to aid commissioned officers who failed to make an election under the Uniformed Services Contingency Option Act has been announced by the United Services Life Insurance Company.

Available to those in the 35- to 45-year age group, the plan provides for a \$10,000 cash settlement plus a monthly income to the beneficiary in the amount of \$200 a month to cover the period during which most widows are ineligible for Social Security benefits. The plan is called the "Contingency Protector 'Option Five.'"

A typical example is an officer age 40 with a wife 37 with their youngest child age 8. In the event of death before normal retirement age 50 the plan provides \$10,000 in a lump sum and after his child is 18, \$200 a month to his widow until her age 62 when her Social Security payments commence. Between his age 50 and 65 the plan provides \$10,000 cash and \$200 a month until his widow would be age 62.

If he lives, the plan is paid-up for \$10,000 at age 65, or much sooner by the use of dividends.

Army Promotes 14 To Temp. Lt. Col.

The Army, in Sepcial Orders No. 19, dated 28 January, has advanced 14 officers to temporary lieutenant colonel. Cutoff date of rank was 19 June 1951. The junior officer had 177 months, 28 days' service as of 30 June 1957.

Arn, Robert M, Arm	Hawthorne, F, Arty
Bates, James M, Arty	Keating, W J, QMC
Campbell, J P, Arty	Lydon, Joseph P, Inf
Drake, William T, Inf	Maler, John E, QMC
Dunn, W F, Jr, TC	McManus, O O, AGC
Duvall, Duncan E, Inf	Morrison, L E, Inf
Hanlifen, T J, Arm	Stockton, Jack P, Inf

General Taylor Labels Fiscal '60 Budget "Horizontal Projection Forward"; STRAC Division Dropped; Others At Reduced Strength; "Modest Modernization"

(Highlights from testimony of General Maxwell D. Taylor, Army Chief of Staff, before the Senate Armed Services Committee.)

THE strength of the Army at the end of FY '58 was 900,000 organized into 15 divisions. At the end of FY 1959 the strength will be 870,000—the number of divisions will be 14. This same level will be maintained in FY '60.

The first category consists of the overseas forces which constitute our first line of defense. If aggression occurs, they must offer sufficient resistance to allow time for reinforcement. At end of FY '60, the Army will maintain in overseas areas 8 divisions, 8 battle groups and regiments, 19 non-divisional surface-to-surface and 10 surface-to-air missile battalions.

The second category of deterrent forces is that represented by the Strategic Army Corps, or STRAC, located in the Continental United States. This is a combat-ready force designed to meet the initial requirements of limited war or to provide the first reinforcements in the event of general war. At end FY '60 this force will consist of 2 airborne and 1 infantry divisions, 1 infantry brigade, 1 armored cavalry regiment, 1 armored combat command, and 7 nondivisional surface-to-surface missile battalions.

The remaining ground combat elements in the Continental United States comprise the Strategic Army Corps Reinforcement. This force has the mission of backing up the Strategic Army Corps in both limited and general war and of providing a training base to supplement the Army training centers. At end FY '60 the Strategic Army Corps Reinforcement will consist of 2 infantry and 1 armored divisions, 1 infantry brigade, 1 armored cavalry regiment, 3 battle groups and 8 nondivisional surface-to-surface missile battalions.

The next major category of forces is the Army's contribution to the air defense of the Continental United States. At the end of FY '59 there will be 62 surface-to-air missile battalions on-site and operational. By end FY '60 there will be 63 battalions, an increase of one battalion.

The Reserve Forces category consists of 27 Army National Guard and 10 Army Reserve divisions organized and trained for employment in either limited or general war. The divisions within the reserve structure will have the same organization as divisions in the Active Army. Further, the Army National Guard will contribute to the Army's air defense effort by manning surface-to-air missile battalions in both FY '59 and FY '60 in the Continental United States and Hawaii.

Our forces for deterrence must be provided adequate support from the Continental United States in order to realize their full potential for prompt and sustained combat operations on land. This support includes a training base to provide a continuous flow of trained manpower, a logistic system to insure procurement and prompt supply of modern weapons and equipment, a research and development program to maintain qualitative superiority of materiel and manpower, and an industrial mobilization program to provide the production facilities and know-how needed for a wartime production effort. These supporting forces absorb about 30 per cent of our uniformed personnel as well as 30 per cent of our dollar budget.

DEPLOYMENTS

At end FY '60 there will be a five-division force in Central Europe, including 3 infantry and 2 armored divisions, 3 armored cavalry regiments, 2 battle groups, and 16 nondivisional surface-to-surface and 6 surface-to-air missile battalions. A medium missile command will remain deployed in Italy.

Two infantry divisions and 1 air-transportable missile command are now in Korea and 2 surface-to-air missile battalions are now on Okinawa. In Hawaii there will be 1 division, minus one of its battle groups, while in the Caribbean there will be 1 battle group. There will be one surface-to-air battalion in Greenland.

MODERNIZATION

I should like now to turn to the status of modernization in the Army. Under this budget, the Army is making a maximum effort to improve its modernization consistent with the requirements of modern warfare. As you know, modernization includes both research and development and the procurement of equipment. The budget for FY '60 permits a modest increase in the level of research and development as a whole, with a somewhat greater increase for NIKE ZEUS. The Secretary of the Army has discussed with you the importance of NIKE ZEUS and has reported to you that we are encouraged with the progress in development to date. As the only weapon under development which will have the capability to meet effectively the threat of long-range ballistic missiles, the ZEUS program is one of the Army's most important development efforts.

With respect to procurement I mean not only the introduction into the inventory of completely new items of equipment but also the replacement of so-called conventional items to offset obsolescence and wearout.

At the present time the Army has on hand an equipment inventory of approximately \$14 billion, of which \$5 billion consists of World War II models or older. Experience has shown that the average wearout cycle for Army equipment is approximately ten years. Thus, \$1.4 billion of new procurement is required to offset annual wearout and obsolescence of the current inventory, without considering additional inventory needs or annual transportation and industrial mobilization charges. The Army's FY 1960 procurement funds available to offset wearout and obsolescence amount to \$1.19 billion.

Now let us examine the distribution of procurement funds between the major categories of missiles and equipment in FY 1960.

Surface-to-air missile procurement money is lower than in either of the two previous years.

Procurement money for surface-to-air missiles in the past three years has centered primarily on the Nike Hercules and Hawk. The Nike Ajax started to phase out in FY 1958. It will be completely replaced by Hercules, which is many times more effective, as rapidly as procurement funds become available. At the end of FY 1958 we had 64 Nike Ajax battalions on-site. The budget for FY 1960, together with prior years' funds, will procure 57 Hercules battalions by end FY '62. Thus at the present rate of funding, Ajax will be retained in the system for several years to come. The FY 1960 budget includes funds to improve Hercules performance against jamming of radars and other electronic countermeasures so that it may engage faster targets at great range and be able to attack effectively air-to-surface missiles of small radar area.

The Hawk surface-to-air missile is proving to be a most effective weapon. It fills the low altitude gaps left by other missiles, and is the only surface-to-air missile with this capability. In addition to its tree-top capability, Hawk is very effective well above 50,000 feet. The budget for FY 1960, together with prior year funds, will equip 15 Hawk battalions by end FY 1962. These battalions are mobile and are needed in our overseas commands now, and it is also planned that some would accompany a STRAC deployment in event of war, or alternatively, they could join

in the air defense of the Continental United States.

A lower level of surface-to-surface funding in FY '60 in comparison with the two previous years reflects the elimination of the Redstone program and a lower level of procurement of ground handling equipment. Procurement of combat and support vehicles will rise in FY '60. This increase results in part from the introduction of the new XM-60 tank with its improved main armament, standardized NATO secondary armament, improved power plant, increased range, and simplified fire control system. A rise in the electronics and communications area is an indication of the Army's increasing need for rapid and longer range communications and a more secure and reliable command and control network.

The weapons category has increased in FY '60, largely to provide funds for the new small arms family. The Army expends about \$200 million worth of ammunition each year for training purposes. This annual demand has been met largely by drawing down stocks accumulated during the Korean War. We must now put new money into ammunition to forestall depletion of certain critical categories and also to procure certain new types of ammunition. Examples of FY '60 procurement items include the NATO caliber 7.62mm cartridge for the new rifle and machine gun, 90mm high explosive anti-tank ammunition for tanks and self-propelled guns, and 8-inch howitzer ammunition. There is an increase in the so-called Classified Projects—tools and handling equipment, test equipment and adaptation kits for atomic weapons. These adaptation kits mate atomic warheads to the carrier missiles and provide the fuzing and firing signals necessary to detonate the warhead at the desired instant.

SURFACE-TO-SURFACE MISSILES

The surface-to-surface missile program in the 1960 budget generally will place reduced emphasis on those missiles already developed, and available money will be used primarily for second generation missiles. Funds available through FY 1959 will buy a sufficient number of tactical Redstone missiles to permit the Army to deploy two Redstone battalions and to maintain a third battalion for training in the U. S. The 1960 budget contains no funds for the Redstone. However, the budget does contain funds for the Redstone replacement—the Pershing.

With respect to other surface-to-surface missiles, the Corporal will be replaced by the Sergeant, a completely new, solid propellant missile of improved mobility. The shorter range missiles—Honest John, Little John and Lacrosse, taken as a group—will be maintained roughly at the current level of funding.

AIRCRAFT

As we convert to missiles, we are faced with the increasing importance and difficulty of the timely location of targets. The artillery forward observer of World War II and Korea cannot do the job for our new weapons so that we must turn to electronics and to aircraft.

Secretary Brucker has discussed the characteristics and the employment of the Mohawk and the Caribou. The Mohawk will provide battlefield surveillance and target acquisition for our missile units, carrying various types of electronic and visual equipment. Initial production quantities of 7 Caribous will be purchased with FY '60 funds to conduct operational and organizational tests. Our concept is that Caribous will be organized into tactical transport companies of 16 aircraft and that one such company will operate with each Army and each Army Corps.

SMALL ARMS

We fought World War II and Korea

with rifles standardized in 1936, and with machine guns that were basically of World War I design.

We are now embarked on a program to replace these older weapons. We need hand weapons that are lighter, smaller, more lethal, more dependable, and easier to supply, support and maintain. To this end we have standardized a new family of small arms. The M-14 is a lightweight rifle capable of selective automatic or semi-automatic fire. The M-15 is a version of the M-14 with a heavier barrel capable of longer periods of sustained fire. The M-60 is a machine gun. These three weapons fire the same 7.62mm cartridge used by all NATO countries, and replace seven caliber .30 and, to some extent, the caliber .45 weapons now in the system.

READINESS

Let us summarize the combat readiness of the Army under the FY '60 budget.

In Europe, Seventh Army is a thoroughly trained force and an effective instrument for the deterrence of war. Under the FY '60 budget the Seventh Army will maintain its current 5 division structure. However, the personnel operating the line of communications which stretches back across France to the Bay of Biscay, upon which Seventh Army depends for its logistical support, will contain a high percentage of foreign nationals.

In Korea, the Eighth Army has lost none of the morale and professional skill which made it famous in the Korean War. However, to keep it at full strength its units will include a large component of Korean personnel. In Hawaii, the 25th Infantry Division will be at reduced strength.

In the United States, STRAC will consist of three divisions rather than four as at present. The 3 STRAC divisions will contain no trainees and will be available for immediate deployment. Most of the remaining divisions of the Active Army will be understrength in trained personnel and will be engaged primarily in the training of replacements.

Units of the Army Air Defense Command in Continental United States will be in an excellent state of operational readiness. Units of the National Guard and the USAR are making steady progress in the quality of their training and thus in their readiness for employment following mobilization.

In summary, the strength of the Army will be 870,000 men organized into 14 divisions. The strength of the Reserve Components will be 630,000. \$1.37 billion will be available for procurement and—exclusive of Nike Zeus and OSD controlled activities—\$747 million for R&D. Nike Zeus is an expanding program of great importance which is having an increasing impact upon Army budgets. Direct obligations, excluding Nike Zeus, will be up slightly from FY 1959 and down slightly from FY 1958. Net expenditures, excluding Nike Zeus, will be essentially the same for the three fiscal years.

Thus, the FY 1960 Army budget is essentially a horizontal projection forward of the levels of spending of former years. I feel that the Army plans to use its FY 1960 resources in the best possible way to meet the requirements of its primary mission of prompt and sustained ground combat in any area of the world where U. S. interests are threatened.

Army EM Quota

The Army has announced Army-wide temporary enlisted appointment quotas for the quarter ending 31 March 1959, as follows:

E-7	600
E-6	1,500
E-5	9,173
E-4	42,305

CNO Burke Stresses Need For New Attack Carrier; Warns Of Fleet Age

THERE will continue to be a requirement for military forces which can project United States power overseas quickly and in graduated degree. The deployed attack carrier task force with modern aircraft—teamed with a Marine Landing Force—is the logical ready military force to counter the threats of limited war in many areas of the world. There is a pressing need to modernize this capability. . . .

We need to improve our capability to combat submarines. Since WWII the submarine has progressed faster than the ASW capability to combat it.

The Navy is a substantial contributor to the deterrent forces of the United States. This contribution will increase as Polaris comes into operation.

The effectiveness of overseas bases is being reduced. The burden of sustaining military power and assisting in the preservation of peace in remote areas is shifting more and more to the Navy.

STATUS OF THE NAVY

Active Forces

The Navy will be reduced, by the end of FY 1960, to 864 ships and 7,200 operating aircraft. The warships of the fleet will include 14 attack carriers, 14 cruisers, 238 destroyer types, and 113 submarines.

In FY '59 personnel strength of the Navy was reduced from 645,000 to 630,000. During FY 1960 we will maintain a 630,000 strength.

Ships will be continued at their low manning levels which will require dedicated maximum effort from all personnel.

Material Condition Of The Fleet

Our most pressing problem in immediate readiness is the material condition of the fleet. 81% of our active fleet is of World War II construction. These ships have been operated at a fast pace for many years. They are wearing out.

We have started a modernization and rehabilitation program designed to extend the useful life of some of these ships—particularly the ASW ships—5 to 8 years.

Block Obsolescence Of The Fleet

The average useful life of naval ships is about 20 years. Our World War II ships will therefore become largely obsolescent between 1961 and 1965.

Through 1959 we have averaged only about 20 new ships per year. A modern fleet of 864 ships requires 43 new ships per year.

We are stretching out our block obsolescence period by our fleet rehabilitation and modernization program, but we must also increase our rate of shipbuilding.

Shipbuilding And Conversion

We have a two year shipbuilding program under which we plan to ask for a carrier every other year. On alternate years we ask for larger numbers of smaller ships.

This year we are requesting 18 new ships, and are modernizing 13 others.

We have made considerable progress in nuclear propulsion. Actual performance indicates that nuclear submarines are safe and reliable, and have a very great cruising range, even at high speed. 33 nuclear powered submarines are under construction, have been authorized, or are in operation. Nuclear power is being installed in an aircraft carrier, a cruiser, and a guided missile frigate—now building. The Navy has requested that the Atomic Energy Commission develop a nuclear power plant for a destroyer.

The quality of our shipbuilding program is high, but the number of new ships is not great enough to meet the replacement problem.

Need For An Attack Carrier This Year

Carriers are no exception to the rest of the aging fleet. The carrier authorized in FY 1960 will be commissioned about 1964. By that time our World War II carriers will be 20 years old, and this is old for any ship, man-of-war or merchantman.

Even now we have difficulty with Essex Class carriers because of their age and small size. Their machinery is wearing out and their flight decks are weakened by the terrific beatings given to them by the heavy, fast, present day

aircraft for which they were not designed. Some of the new higher performance aircraft can be catapulted off—but can't land. There are nine Essex carriers on active duty as attack carriers in the fleet today.

These old carriers cannot be made to operate as attack carriers much beyond 1966.

We have done all we can to modernize the Essex class carriers, but we can't give them youth—or size.

We will continue to need carriers in the future for limited war just as has been repeatedly demonstrated in the past few years, and the need will be urgent, just as it has been in the past.

Missiles have not, and will not in the foreseeable future, replace manned aircraft in limited wars. . . .

The Communists have demonstrated often enough in the past their intention to supply first rate modern equipment to their satellites. Attack carriers must be able to operate the high performance aircraft, both fighters and attack aircraft, necessary to match the enemy threat. This means large carriers with heavy launching equipment, i.e., steam or internal combustion catapults. It means heavy arresting gear with the big arresting engines which are required to stop our present day heavy fast jet aircraft without damage. The carrier must carry the extra jet fuel required these days, and must have the space necessary for overhaul and maintenance of aircraft, engines, missiles and electronic equipment, all of which require much added space and special equipment. . . .

We are now operating 14 attack carriers. Under normal circumstances 4 to 6 of these attack carriers are deployed overseas in the Mediterranean or in the Far East. In times of stress, the numbers deployed are about doubled.

We have in operation, under conversion, built, or building, 3 Midway, 6 Forrestal, and 1 Enterprise class carriers. By 1965 our Essex class carriers will be over-age. The need for the attack carrier we are requesting this year will be urgent.

We would have liked nuclear power in this carrier, but the cost is considerably greater, roughly \$120 million.

There are military advantages to nuclear power for a carrier. The increased range at high speed, the extra space for jet fuel and aircraft, and the freedom from funnel structure which would have given us better flight deck characteristics are all valuable military advantages, but they are not critical. Building a new attack carrier is critical.

The Polaris Program

The Navy's Fleet Ballistic Missile weapons system (Polaris) will be a major contribution to our national deterrent force.

The soundness of the basic concept and the initial deliberate approach have enabled the Navy to accelerate and augment the original program so that there will be an initial capability in 1960 instead of 1963.

The first 5 FBM submarines authorized for which money was appropriated by Congress are under construction. Congress appropriated funds for 4 additional FBM submarines in the FY 1959 budget for a total of 9, plus additional funds to lend assurance to the achievement of an effective early operational capability of the missile. In December 1958, funds for one of these submarines were released for obligation in FY 1959, and the remaining 3 submarines are expected to be released for construction commencing in FY 1960.

Excellent progress has been made in the Polaris missile development program. Twenty-one preliminary test vehicles have been unqualified successes. The first three full scale flight test vehicles encountered difficulties. The first missile was satisfactorily launched but failed to follow a safe flight path out to sea and was destroyed. The flight was long enough to prove that stability control and power plant performance were according to design. The second vehicle was unsuccessful due to premature actuation of the destruct device and required certain minor re-designs of this device which is carried only in test missiles. The results of the third and fourth flight tests are still under analysis. No serious obstacle to success is known.

The support program for Polaris has made good progress.

General Pate Tells Marine Plans To Cut Units In Report To Senate Armed Services Group

We started this year with a strength of approximately 187,500 officers and men. Right now—today—we have about 185,000. We will continue to decline as we implement the directive to reduce to a strength of 175,000 by 30 June of this year. Our supporting base, and the security forces which we must provide to other government agencies, have already been reduced. Their strengths have reached the minimum consistent with efficient operation for the forces and missions presently assigned. For this reason, reductions have to be made in our combat units—the Fleet Marine Force. To effect this, we have two alternatives. We can either provide fewer and fewer men to the units than their tables of organization call for, or we can deactivate units.

In Fiscal Year 1958 with a ceiling of 188,000 personnel, we had a personnel availability in our Fleet Marine Forces equivalent to 8 Battalion Landing Teams per division or a total of 24 within the Fleet Marine Forces. However, I chose to retain the full structure of 27 Battalion Landing Teams in the 3 Divisions and levy reductions across the board.

However, during the past year our experience in Lebanon and the Far East clearly demonstrated to us the fallacy of maintaining units at levels seriously below combat strength. I have therefore abandoned this philosophy, and returned to one of maintaining our Battalion Landing Teams at full combat strength. This, linked with the further reduction to 175,000, has required me to deactivate 2 of the Battalion Landing Teams in each of our 3 Divisions. Thus

our three Marine Divisions will be reduced from a total of 27 to a total of 21 battalions. All remaining divisional units can then be maintained at not less than 90% of their table of organization strength. Also, by 30 June six aircraft squadrons and 100 additional aircraft will be deleted from our three aircraft wings. Some other reductions in our combat strength will be entailed, but I have mentioned the principal ones.

Elsewhere in the personnel field, in order to get every possible benefit from our Marines, we are making strenuous efforts to improve quality, to keep commitments for housekeeping and support functions to a minimum, and to reduce individual training requirements wherever possible. . . .

In all of our exercises and in all of our training, we are stressing modern techniques of amphibious operations—the vertical envelopment concept. The helicopter assault landing capability, which we developed, is a reality now, and it is growing in potential from year to year.

The assault elements of our divisions are organized to make them transportable by helicopter. The structure of each Marine Aircraft Wing on the Atlantic Coast, the Pacific Coast, and in the Western Pacific provides for a balanced helicopter group in each locality.

In order that helicopter capabilities can be employed in amphibious operations, carrier decks are required. In the Pacific, the Navy has one aircraft carrier specially converted for use as a helicopter platform. This is USS THETIS BAY, a former escort carrier which in 1955 underwent minor conver-

sion and overhaul to give it a troop carrying capability, and to facilitate the handling of helicopters. Marines have used it extensively. It has provided the Naval Amphibious Forces with much valuable experience, both in perfecting modern amphibious techniques and for ideas of design to be incorporated in new construction vessels. However, THETIS BAY provides vertical assault capability for less than one battalion and only in one ocean. More is needed.

The Navy's approved ship building program will provide two carriers specially designed for the purpose in 1962, but the problem cannot be put off until then. We feel there is urgent requirement that greatly increased helicopter lift capabilities be available to the fleets right now.

The Chief of Naval Operations and I have, after much study, arrived at an interim solution. By providing additional Marines to augment the Marine detachment to help fill out their crew, two—and possibly three—CVS type carriers can be kept in service and devoted to helicopter operations. We have determined that a Marine detachment of 10 officers and 323 enlisted men will be required for each carrier designated, and I have agreed to furnish those Marines. The Marine Detachments, organized into two companies, will perform assigned air, guard, supply, communication and other support duties appropriate for Marines. I might point out that this solution to our problem is only possible because of the close and intimate association of the Navy and Marine Corps over the years.

In the Atlantic area the Amphibious Forces inaugurated the use of the carrier BOXER early this month. In addition to USS PRINCETON, to be assigned to the Amphibious Forces in March, one more carrier is under consideration for assignment at a later date. These vessels are not ideal for efficient helicopter operations, nor for amphibious troops habitability, but they do provide a significant increase in our combat potential. They enable us to apply modern doctrine in our amphibious operations.

Any comment on our combat readiness would be most incomplete without mention of the Marine Corps Reserve. We place great reliance upon it. In the event of mobilization, our Reserve will provide us immediate back-up strength.

Our Ready Reserve comprises 208,000 men. Of these, some 43,000 are organized into drill-pay units. Drill-pay unit training programs maintain these units in a state of readiness that makes them immediately available for mobilization.

The balance of our reserves would be called to duty and placed in combat units as quickly as refresher training could bring them up to Fleet Marine Force standards. Right now I am proud to say our Reserve is in the highest state of readiness we have ever achieved short of full mobilization.

Gentlemen, I have summarized briefly our accomplishments during the past year, and indicated our posture for the year ahead. As it always has been, it is now—a posture of preparedness. Everything we have available to us today is in the highest state of readiness we know how to achieve. You have my assurance it will be kept that way.

Pentagon Will Seek More Housing For Families In All Services

From first page—

number of family housing units which will have to be supported."

The exact number to be requested is now being worked out by the Pentagon.

John H. Arrington, Chief of the Defense Department Family Housing Division, in an appearance before the Senate Banking and Currency Committee, revealed only that the number of units to be constructed will be "substantial."

Urging a one-year extension of the Capehart Program, due to expire 30 June, Mr. Arrington told the Committee the extension is "important to the continued successful development of the program."

He said a total of 91,367 Capehart family housing units had been authorized for

development as of 15 January.

Of this number, 17,766 units have been completed, 52,280 are under contract, and the balance are in various stages of development.

Commenting on Congressional action last year in boosting the interest ceiling on Capehart mortgages to 4½%, Mr. Arrington said this action speeded construction and enabled the Pentagon to build more homes through private financing.

He told the Committee, however, that the present 4½% ceiling should be further increased to 5½% "in order to pro-

vide for flexibility in the event of future adverse trends in the market." He said this action would mean that the mortgage term should be increased from 25 to 30 years.

The Family Housing Chief also reported on the Defense Department's program of acquiring Wherry housing units. He said this acquisition "is continuing at a satisfactory rate" with the Army planning to acquire 2,443 units and the Navy 4,152 units before next July. This will make a total of 60,371 Wherry units

which the Government has acquired for use as public quarters.

The total cost of the Capehart units which are now under contract for military families is more than \$1.1 billion. Approximately \$660 million of this amount has been financed privately and about \$424 million by the Government, through the Federal National Mortgage Association.

Here is a complete breakdown, by Service, of all Capehart housing now under development:

	Army	Navy-USMC	Air Force	Total
Approved by Pentagon	27,075	11,318	52,974	91,367
In Process	3,616	3,299	8,330	15,245
Advertised	1,104	1,445	2,108	4,657
Bidder Accepted	842	0	577	1,419
Under Contract*	21,513	6,574	41,959	70,046
Total	54,150	22,636	105,948	182,734

*Includes 17,766 units in completed projects (Army, 9,120; Navy, 955; Air Force, 7,691).

Proficiency Flying Pay Faces Cuts

From first page—

officers who can receive proficiency flying pay unless the Services begin restricting their flight pay payrolls to officers who have a "real combat proficiency requirement."

The Committee said the Services should comb their records "at least twice a year to thin the ranks of those engaged in proficiency flying."

"Progress" along these lines was to be reported to the Committee this month but had not been received as THE JOURNAL went to press. A Pentagon source said, however, that the report is nearing completion and will be transmitted to the Congress soon.

In the meantime, at the direction of Secretary McElroy, the Service Secretaries and the Chiefs of Staff are reviewing the proficiency flying programs.

Their recommendations are expected to be presented at the next meeting of the Armed Forces Policy Council.

Recent statistics submitted to the Armed Services Committees show that the Services had approximately 13,300 senior officers on the flight pay payroll during 1958. Most of the group (8,559) were Air Force officers. The Navy had 3,984 officers above the rank of lieutenant commander on the payroll, instead of 7,933 as previously reported (THE JOURNAL, 17 January); the Marine Corps, 567 and the Army, 186.

The senior Navy officers receiving flight pay during the last six months of 1958 included 2,991 commanders, 866 captains, 76 rear admirals, 13 vice admirals and three admirals, plus 35 technical observers in the rank of captain and commander.

Officers receiving flight pay in all four Services included 460 generals and admirals.

Capitol Action

Introduced In The House

WIDOWS' MEDICARE—HR 2862, Rep. Davis (D-Ga.), provides outpatient care and medical supplies to widows of certain deceased former members of the uniformed services.

RETIRED PAY—HR 2879, Rep. Horan (R-Wash.), equalizes retired pay.

CASH AWARDS—HR 2894, Rep. Libonati (D-Ill.), provides for establishment of a program of cash awards for suggestions or inventions made by members of the Armed Forces.

RETIRED PAY—HR 2912, Rep. McFall (D-Calif.), equalizes retired pay.

MEXICAN SERVICE—HR 2924, Rep. Rees (R-Kans.), provides benefits for persons who served in the Armed Forces in Mexico or on its borders between 8 Dec. 1910 and 6 April 1917.

RETIRED PAY—HR 2940, Rep. Tollefson (R-Wash.), equalizes retired pay.

SOLDIERS', SAILORS' RELIEF ACT—HR 2965, Rep. Bates (R-Mass.), amends the Act with respect to the method of foreclosure of mortgages.

USCOA ELECTIONS—HR 2966, Rep. Bates (R-Mass.), extends periods during which elections may be made under USCOA by active members of the uniformed services.

SAC ALERT PAY—HR 2972, Rep. Brooks (D-La.), provides alert pay for members of the Strategic Air Command.

RETIRED PAY—HR 2973, Rep. Brooks (D-La.), equalizes retired pay.

RETIRED PAY—HR 3015, Rep. Hudleston (D-Ala.), equalizes retired pay.

RETIRED PAY—HR 3019, Rep. Johnson (D-Calif.), equalizes retired pay.

RETIRED PAY—HR 3037, Rep. Mailiard (R-Calif.), equalizes retired pay.

ARMY RESERVE CHIEF—HR 3075, Rep. Sikes (D-Fla.), provides for office of Chief, U. S. Army Reserve and ROTC Affairs.

LIGHTHOUSE SERVICE—HR 3140, Rep. Boggs (D-La.), provides further increase in retired pay of certain members of the former Lighthouse Service.

RETIRED PAY—HR 3164, Rep. Foley (D-Md.), equalizes retired pay.

USCG DISCHARGES—HR 3209, Rep. Shelley (D-Calif.), authorizes certificates of honorable discharge in lieu of certificates of disenrollment to certain persons who served as temporary members of the USCGR during WWII.

RETIRED PAY—HR 3210, Rep. Shelley (D-Calif.), equalizes retired pay.

MEMORIAL COMMISSION—HR 3223, Rep. Van Zandt, authorizes \$7.5 million appropriation to Corregidor Bataan Memorial Commission.

RETIRED PAY—HR 3284, Rep. Cohelan (D-Calif.), equalizes retired pay.

CHAPLAIN'S REPORT—HR 3290, Rep. Durham (D-N.C.), eliminates requirement that each chaplain make annual report to SecNav.

AF MEDALS—HR 3219, Rep. Durham (D-N.C.), provides two new medals for Air Force.

NAVAL VESSELS—HR 3293, Rep. Durham (D-N.C.), authorizes construction of modern naval vessels.

MEDICAL OFFICER BOARDS—HR 3320, Rep. Kilday (D-Tex.), relates to appointment of boards of medical officers.

WAAC SERVICE—HR 3321, Rep. Kilday (D-Tex.), authorizes crediting certain WAAC Service.

T&T ALLOWANCE—HR 3322, Rep. Kilday (D-Tex.), authorizes payment of transportation and travel allowances to escorts of dependents of members of the uniformed services under certain conditions.

MARINE GENERALS—HR 3323, Rep. Kilday (D-Tex.), establishes peacetime limitation on number of lieutenant generals in Marine Corps.

ENLISTMENT EXTENSIONS—HR 3324, Rep. Kilday (D-Tex.), permits 6-year extension or reextension of enlistments.

MARINE LAWYERS—HR 3325, Rep. Kilday (D-Tex.), establishes career pattern for Marine Corps officer lawyers.

RETIRED PAY—HR 3328, Rep. McDonough (R-Calif.), equalizes retired pay.

HOUSE TRAILERS—HR 3351, Rep. Price (D-Ill.), permits payment of cost of transportation of house trailers or other mobile dwellings by members of uniformed services.

BOQ FOR RESERVISTS—HR 3353, Rep. Rivers (D-S.C.), authorizes payment of basic allowance for quarters to enlisted members of Reserve components on active duty for training as if they were Regulars.

PER DIEM PAYMENTS—HR 3357, Rep. Rivers (D-S.C.), equalizes treatment of reserves and regulars in payment of per diem.

T&T ALLOWANCES—HR 3358, Rep. Rivers (D-S.C.), provides travel and transportation allowances for members of the NG and Reserve when travel is performed in an active duty or inactive

duty training status in compliance with Federal directives.

RESERVE UNIFORMS—HR 3360, Rep. Rivers (D-S.C.), authorizes Reserve officers to combine service in more than one Reserve component in computing the four years of satisfactory Federal service necessary to qualify for the uniform maintenance allowance.

NATIONAL GUARD BUREAU—HR 3361, Rep. Rivers (D-S.C.), provides for organization of the National Guard Bureau.

RESERVE RATIONS—HR 3362, Rep. Rivers (D-S.C.), authorizes rations in kind for Reserve officers performing inactive duty training for periods of eight or more hours in any one day.

NG ENLISTMENT—HR 3363, Rep. Rivers (D-S.C.), changes terms for which enlistments may be accepted in National Guard.

RESERVE DISABILITY BENEFITS—HR 3364, Rep. Rivers (D-S.C.), provides benefits for nonregular members of the Armed Forces and members of the National Guard disabled from disease.

NON-REGULAR RETIRED PAY—HR 3365, Rep. Rivers (D-S.C.), authorizes crediting of certain service for purpose of retired pay for nonregular service.

SIX-MONTH TRAINING—HR 3368, Rep. Rivers (D-S.C.), extends the special enlistment programs authorized by the Armed Forces Reserve Act, as amended.

TERM CONTRACTS—HR 3370, Rep. Rivers (D-S.C.), provides active duty agreements for Reserve officers.

ACADEMY SERVICE—HR 3371, Rep. Rogers (D-Mass.), provides that service of cadets and midshipmen at Service Academies during specified periods shall be considered active military or naval wartime service for the purposes of VA laws.

RETIRED PAY—HR 3373, Rep. Roosevelt (D-Calif.), equalizes retired pay.

UCMJ REVISION—HR 3387, Rep. Vinson (D-Ga.), amends Uniform Code of Military Justice.

ANG AND ARMY RESERVE FLOORS—HR 3388, Rep. Vinson (D-Ga.), by request, repeals minimum strength requirements for Army Reserve and National Guard set by 85th Congress.

Introduced In The Senate

MILITARY PROCUREMENT—S. 500, Sen. Saltonstall (R-Mass.), revised Armed Forces procurement procedures.

RETIRED PAY—S. 541, Sen. Jackson (D-Wash.), equalizes retired pay.

CAPT. STEICHEN—S. 587, Sen. Kefauver (D-Tenn.), provides for advancement of Capt. Edward J. Steichen, USNR-Ret., to the grade of RADM on the retired list.

USMA INSTRUCTION—SJRes 24, Sen. Green (D-R.I.), authorizes admission for instruction at West Point of two citizens of Thailand.

It Happened On The Hill; General Taylor Says He Is "Diffident" Before Bear Trap

DURING draft-extension hearings before the House Armed Services Committee, Representative Hebert (D-La.) questioned Assistant Secretary of Defense Finucane about Army manpower cuts. Chairman Vinson suggested that the question be reserved for Secretary McElroy, who will appear before the Committee on 2 February. Mr. Hebert said OK, but he thought the Secretary would be "under wraps" because of a Budget Bureau injunction which, he said, "gags" top Administration officials. Chairman Vinson, peering over his glasses, declared with unusual emphasis, "He will NOT be under wraps to me."

General Curtis LeMay, during the same hearings, told the Vinson Committee that an all-out nuclear war would be decided within two or three days after it starts. The Air Force Vice Chief of Staff added, there would be no large-scale military operations thereafter.

Questioned by Congressman Hebert on Army manpower cuts, General Taylor said his recommendation for a 925,000-man force is still valid as far as the fiscal '59 budget goes. He did not indicate what he thinks the fiscal '60 strength should be. When Congressman Hebert attempted to pin him down to a more specific answer about future Army strength, General Taylor said the Army "is not making the contribution I would like to see it make." The Congressman suggested that General Taylor is gifted at semantics. The General smilingly replied, "When a man approaches a bear trap, Congressman Hebert, he does so diffidently."

A new Committee Member, Representative Stratton (D-NY) mentioned that the U. S. Chamber of Commerce has suggested that the draft age be lowered. He asked General Taylor what he thought and the Army Chief of Staff replied that he believes the present age span "is right." Chairman Vinson ad libbed the information that he has read the Chamber of Commerce statement and "was not very much impressed."

General Twining Assesses Defense Posture In His Senate Testimony

From first page—

Armed Forces today is not sufficient to enable us to relax in our planning for the future. There can be no doubt that Soviet Russia is making significant progress in improving her capabilities. We are too. We intend to continue to improve our capabilities. Our rate of improvement is that best calculated to ensure the survival of the Free World.

PART I—THE STRATEGIC MILITARY POSTURE OF THE UNITED STATES

The basic objective of United States National Policy is the preservation of our American way of life. When I say this, I mean the preservation of our Nation, our people, and our fundamental values and institutions.

The basic objective of our strategic military posture is the achievement of that preservation. To this end, there have been developed two important strategic military policies. These are:

1. To deter general war by maintenance of military forces of sufficient strength and mobility to prevail in general war.
2. To deter Communist limited aggression or to defeat such aggression in a manner best calculated to keep hostilities from flaming into general war.

The Joint Chiefs of Staff have the basic national objective and these two policies in mind when we develop our recommendations for the design of the strategic military posture of the United States.

From the basic national objective and the strategic military policies, we derive our military objectives. To attain these objectives, we have developed programs which make up our recommendations for the design of our strategic military posture. These programs are designed to provide:

1. A nuclear retaliatory capability, adequately safeguarded and ready for immediate action.
2. An adequate continental defense system.
3. Highly mobile and suitably deployed ready forces with the capability:
 - a. To respond selectively and flexibly to local aggression;
 - b. To use conventional or nuclear weapons as may be required;
 - c. To carry out assigned general war tasks.
4. A capability to maintain control of essential sea areas and air communications.

I request that you keep these four objectives in mind as we continue to examine our posture and compare it with that of the Soviet Union and the Soviet Bloc. Upon the completion of our examination and comparison, I will present to you an evaluation of our capabilities to meet our objectives.

PART II—THE THREAT TO THE UNITED STATES

First, I would like to invite your attention to what we believe to be the basic threat to the security of the United States and then discuss the military components of this threat.

I believe that the significant and basic threat to the security of the United States and the Free World is to be found in the implacable hostility of the Soviet and Chinese Communist regimes toward the United States and the Free World and in the aggressive program of international Communism to obtain a Moscow-dominated Communist-controlled world.

In Communist eyes, it is absolutely vital to the achievement of this objective that the USSR and the Sino-Soviet Bloc possess military strength sufficient to guarantee their own security and to backstop their expansion.

(There followed a discussion of the military components of the Soviet threat, together with slides illustrating their capabilities.)

Between the all-out nuclear exchange at one extreme and subversive political activity at the other extreme lie a large number of military and quasi-military choices open to Soviet expansionist aims. This is the twilight zone, and it is here in this range of intermediate possibilities that we find the limited war threat, which is so frequently discussed today.

The threat posed by the Communist armies with supporting tactical air forces and by the Communist navies with supporting naval aviation cannot be isolated and walled off from the threat posed by the Soviet nuclear delivery systems. This threat inherent in the Communist ground and sea forces is ever present regardless of the degree or character of hostility in any world situation, and regardless of the developments flowing from any number or type of hostile situations.

PART III—THE DETERRENT AND RETALIATORY POSTURE OF THE UNITED STATES

In our discussion up to this point, I have covered the basic objectives of our national military programs. I have pointed out the various threats which influence the design of our strategic military posture. Now, I would like to talk about the product of our work—the Armed Forces of the United States.

First, I want to make a few brief and general remarks concerning the composition and mix of our deterrent and retaliatory forces. Then, I will treat in detail those forces charged with the task of nuclear retaliation. After this, I will cover the contribution made by our forces not charged primarily with the task of nuclear retaliation.

The deterrent effort and retaliatory capability are not contained in any one segment of our total forces. Our deployed land, sea, and air forces play a significant role in this portion of our strategy.

(There followed a discussion of the United States deterrent retaliatory forces, together with slides illustrating the capabilities of these forces.)

PART IV—COMBAT POSTURE OF LAND, SEA, AND AIR FORCES OF THE UNITED STATES

Let us turn now to the composition of our land, sea, and air forces—as distinguished from our long-range striking forces—and discuss their offensive potential; their contribution to be made to our deterrent and retaliatory posture; and their contribution to our limited war posture.

The United States capabilities for local or limited war derive in large part from those required to deter and fight a general war. The type of air and sea forces required to control the air and the sea lines of communication in general war, in large-scale aggression in the Far East, in Southeast Asia, or in the Mid-East, are also necessary for effective reaction to smaller scale aggressions.

Our Army, Navy, Marine Corps, and Air Forces deployed overseas and our strategic reserve in the Continental United States are a significant part of our deterrent effort. These forces, together with our long-range striking forces, give us an over-all combat posture designed to react effectively in cold war, limited or local war, and general war. Our prompt application of sufficient force, in cooperation with friendly forces, is calculated to prevent local aggression from growing into general war.

(There followed a discussion of the over-all capabilities of the Armed Forces of the United States to respond to local aggression and general war.)

PART V—COMPARISON OF FORCES

(This section consisted of a discussion with slides showing the forces of the United States and her Allies as com-

Radioplane Drone Sets Altitude Record



AN unofficial world altitude record for propeller driven drone aircraft has been set by an Army RP-77D aerial target, shown above, when it climbed to an altitude of over 46,000 feet during evaluation tests at the Dona Ana Range, Ft. Bliss, Tex.

Report of the nearly nine-mile high flight was made by Radioplane Division of Northrop Corporation which produces the RP-77D for Army Ordnance.

The flight was conducted by the Army Air Defense Board Surface-to-Air Service Test Section.

Rocket launched, Radioplane's RP-77D is turboprop-powered to speeds in excess of 400 miles per hour at above 40,000 feet and is capable of flight duration exceeding one hour at this altitude. Relative to performance, it is a low cost target, constructed almost entirely of fiberglass laminate, and has an additional capability for photo and television combat surveillance missions.

Duration of the record making flight was over one hour after which the target was recovered by parachute.

pared to those of our potential enemies.)

Once again, let me emphasize that we must be cognizant of numbers, but not overawed by them. The foreign and strategic policies of the Soviet Union which dictate the mix of the Soviet forces are vastly different from the foreign and strategic policies of the United States. I have pointed this out as we have moved along in our discussion, but I do want to emphasize again that these policies and aims produce the differences along the line in the composition and numbers of military forces.

Numbers alone do not reflect the complete picture of capabilities. Twice in the past year, we have had occasion to rely on the capabilities of our own forces, and the mix of these capabilities supporting a firm foreign policy proved to be adequate to deter general war.

PART VI—EVALUATION

At the very beginning of our discussion, I indicated that I would present to you an evaluation of our capabilities to meet our objectives after we had completed our examination and comparison of Soviet and United States forces.

(There followed a step-by-step evaluation of our capabilities.)

I believe that the strength of our Armed Forces today is adequate to meet our military objectives.

I do believe that the United States is prepared to meet the threat it faces today. Our retaliatory forces are fully capable of carrying out their missions and will continue to maintain and improve this capability. The manned bomber will for sometime constitute the primary means of delivering strategic weapons in volume and with the degree of accuracy required.

Our primary nuclear capability rests today in our manned bombers and the same is true of the Soviet Union. The United States outnumbered the USSR in intercontinental jet bombers and in medium bombers. Our bombers are manned by the most highly trained and experienced crews in the world. They are ready now.

I believe that our air defense system is capable of doing the job that it is required to do. I do not for one minute, however, believe that man can devise an air defense system that will guarantee 100 per cent protection.

Our seapower is clearly superior to that of the Soviet Union even though the Soviet Union has made substantial improvements since World War II. No one can deny that the USSR has more submarines in operation than the United States. This fact is developed from the differing aims and policies of the Soviet Union, which result in dif-

ferent types of requirements for military hardware and equipment. In submarines, the United States leads in technological advances. We have a number of nuclear powered submarines in operation today, with many more in advanced stages of construction.

You are, of course, aware that the Soviet Union has no aircraft carriers while the United States is in a position to deploy both in the Mediterranean and the Far Pacific powerful task forces built around aircraft carriers. These carrier task forces which later will be augmented by POLARIS submarines constitute a retaliatory capability unique to the United States.

With respect to ground forces, the Soviet Union clearly outnumbers the United States, but here, too, the difference in requirements must be taken into account. The Soviet Union would have use for large ground forces to maintain internal security within the Soviet Bloc and to man their long frontiers. We have no such requirements. Therefore, our tactical forces in the Army, Navy, Marine Corps, and the Air Force, together with the substantial forces contributed by our Free World allies, are available to deal with limited war situations and to carry out essential tasks in a general war.

Lt. Col. Treadway's NIKE Bn. Best In Seven States

Hampton Roads Nikemen have been awarded the Best Battalion of 1958 Trophy in the 15 battalion, seven-state and Washington D. C. area of the 2d Region, Army Air Defense Command, Maj. Gen. William H. Hennig, Commander, has announced.

Selected as best all-around battalion was the 4th Missile Battalion (Nike-Ajax), the 51st Artillery of the 3d Artillery Group with headquarters in Norfolk. The Nike-Ajax firing batteries of the 4th Missile Battalion 51st Artillery are located on Virginia Peninsula and near Smithfield.

The 51st fired an impressive 10-for-12 score during its firing last spring, with the Fox Hill Battery getting three 'kills' for three missiles fired. Lt. Col. John M. Hinman, now attending the Command and General Staff School at Ft. Leavenworth, Kan., commanded the unit during the firing. It is now commanded by Lt. Col. Joseph E. Treadway.

Col. Minot B. Dodson, 3d Artillery Group commander, also cited the successful missileman qualification training and testing program initiated by Maj. Antonio J. Bolduc as a contributing factor to the win. He was the interim battalion commander from August to November before reverting to executive officer.

Journal Classified

Service families will find it helpful to consult these selected listings of sales and services.

Rates are 14 cents per word (minimum \$1.50). Deadline is 5 p.m. Tuesdays. Payment must accompany insertions. Write the Army Navy Air Force Journal, 1710 Connecticut Avenue, N.W., Washington 9, D. C.; or in the local area, phone HObart 2-1220, and ask for Mrs. Howard.

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Florida (Cont.)

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Virginia (Cont.)

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Col. Ashworth Heads Finance Assn. Chapter

The San Antonio chapter of the Army Finance Association has reelected Col. T. D. Ashworth as President.

Lt. Col. LeRoy Ledger, USA-Ret., Civilian Employee with the Fourth Army Comptroller Section, was named Vice President.

"LOST BATTALION" SURVIVOR RETIRES FROM AF

Lt. COL. Ellis C. Vander Pyl, Chief of Intelligence Training at USAFE Headquarters, Wiesbaden, Germany, a survivor of the famed WWI "Lost Battalion," retires 31 January after 40 years' service—most of it on active duty. He and Mrs. Vander Pyl and their son, Robert, plan to live in the Washington, D. C., area.

A PERFECT VALENTINE! Present him with a set of Balfour quality rank and corps insignia—the gift he will wear and think of you. Free pamphlet. L. G. Balfour Company, Attleboro, Mass.

THE LUXENBERG "Double Header" holds 2 caps—water repellent black fibre—reinforced—shipped prepaid \$4.95, (tax included.) Send check with order. LUXENBERG, 488 Madison Ave., New York, N. Y.

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OF INTEREST TO WOMEN

A NEW APPROACH TO TEEN-AGE MEDICINE is featured in January U. S. LADY, the service family journal. Special offer—five issues for \$1. U. S. LADY, 1823 Jefferson Pl., NW, Washington 6, D. C.

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RETIRING? Investment firm needs representatives Southwest. Write MANAGED FUNDS, 5421 Joyce Circle, El Paso, Texas.

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HOTELS—Burlington Hotel, Washington, D. C.; Francis Scott Key Hotel, Washington, D. C.; Piccadilly Hotel, New York City; South Gate Motor Hotel, Arlington, Va.
SCHOOLS—Braden, Carlisle Military School, Columbian Preparatory School, Fishburne Military School, Fork Union Military Academy, Georgia Military Academy, Manlius School, Marion Institute, Hannah More Academy, Mt. Lowe Military Academy, St. Agnes School, Severn School, Sewanee Military Academy, Staunton Military Academy, Sullivan School, Valley Forge Military Academy.

SecDef McElroy Says NORAD CinC's Retirement Would Be "Very Regrettable"; Other Names In News For Varied Reasons

THE prospect that General Earle E. Partridge, USAF, may be retained on active duty beyond 1959 as Commander-in-Chief of the North American Defense Command has been raised as a result of a press conference remark made last week by Secretary of Defense McElroy. A newsman noted in a question to the Secretary that General Partridge, who will have 35 years' service with five years in permanent two-star rank on 31 July, faces retirement then unless retained on duty by Washington. Secretary McElroy commented that he was aware of the situation (reported in the 10 January 1959 issue of THE JOURNAL), and said it would be "very regrettable" if General Partridge should retire.



Gen. Partridge

Medal of Honor winner Capt. Stanley T. Adams, USA, has joined the G-3 section of the Fourth Army at Ft. Sam Houston, Tex., whose CG, Lt. Gen. G. S. Meloy, jr., led the 19th Infantry Regiment in Korea, where then Sergeant Adams won the Nation's highest honor . . . Chaplain (Maj.) Nash P. Geany, USAFR, of McGuire AFB, N. J., received 30 January the Reserve Officers' Association award as "ROA Chaplain of The Year" in Washington, D. C., ceremonies at which

Senator Richard B. Russell (D-Ga.), Armed Services Committee Chairman was saluted as "Minute Man of The Year."

The Army's last surviving Chief of Artillery, Maj. Gen. Robert N. Danford, is shown at the right with Maj. Gen. Thomas E. de Shazo, USA, departing CG of the Artillery and Missile Center, during a recent visit at Ft. Sill, Okla. General de Shazo goes to the Third Army at Ft. McPherson, Ga., and will be succeeded by Maj. Gen. Verdi B. Barnes, USA, who has been on duty with the JCS Joint Staff, General Danford, who retired in 1942, was at Sill in connection with the 90th anniversary celebration of the historic post.

Lt. Gen. O. P. Weyland, USAF, Commander, reports from Langley AFB, Va., a major accident rate in '58 of 17 per 100,000 flying hours in TAC, a 31% drop from '57. TAC scored its best safety year in history during '58.

Newly named as Deputy Director of the Bureau of Air Traffic Management of the Federal Aviation Agency, under Lt. Gen. Elwood R. Quesada, USAF-Ret., is the former Deputy Commander of MATS' Eastern Transport Air Force at McGuire AFB, N. J., Brig. Gen. George S. Cassady, USAF.

Senator Ralph Yarborough (D-Tex.), an Army Reserve Colonel, has been named Chairman of the Veterans Affairs Subcommittee of the Senate Labor and Public Welfare Committee. He is a former USMA cadet.

Maj. Gen. William H. Harrison, jr., National Guard Association President, has described the 1960 defense budget as "Pennywise and Security Foolish," in a report to the Association's Executive Council. He noted that the Guard is implementing a reorganization plan designed by the Department of the Army based on a 400,000 strength; the defense budget calls for funds to support only 360,000 strength.

Capt. Andrew D. Jackson, jr., who appropriately is a former enlisted man, has taken command of the Naval Training Center Service School Command at Bainbridge, Md., relieving Capt. C. H. Johnson, jr., who will command the ammunition ship USS Vesuvius. Captain Jackson had commanded Destroyer Division Two at Newport, R. I.

Capt. Ellis B. Rittenhouse is the new skipper of the command ship, USS Eldorado, replacing Capt. Charles B. Jackson, jr. Captain Rittenhouse reported to the Pacific Fleet Amphibious Force from the Staff of CinPac which he served as Fleet Personnel Officer. Captain Jackson reports to the Office of the CNO in Washington.



Admiral Holloway Receives The DSM

Admiral James L. Holloway, jr., received the Distinguished Service Medal for his services to the United States during the Lebanon crisis as Commander-in-Chief, Specified Command, Middle East, at a Pentagon ceremony 28 January.

The presentation was made for the President by Secretary Thomas S. Gates, jr.

Admiral Holloway, C-in-C, Naval Forces, Eastern Atlantic and Mediterranean, has his headquarters in London.

Attending the ceremony was Admiral Holloway's son, Cdr. James L. Holloway, III, who was in the Mediterranean aboard USS ESSEX (CVA-9) commanding Fighter Squadron Eighty-three during the Lebanon crisis. Commander Holloway is now assigned to the office of the Deputy Chief of Naval Operations for Air in the Pentagon.



Adm. Holloway

Col. Phillips Is Director

Col. Henry L. Phillips has become the Director of Services at the Brooklyn Army Terminal, it is announced by Col. Ray K. Bannister, Commanding Officer. Prior to this assignment, Colonel Phillips spent 15 months as the Senior Transportation Advisor with the Korean Military Advisory Group.

Married to the former Elizabeth Blake-more of Dallas, they are the parents of two grown children, a son, Midshipmen Henry Phillips, jr., USNA, and a daughter, Rosanne.

Lt. Col. Augeri Heads Bn.

Lt. Col. Rosario J. Augeri, Executive Officer, 7th Communications Battalion, Marine Corps Base, Camp Pendleton, Calif., has assumed command of the unit succeeding Lt. Col. Sanford B. Hunt, jr. ordered to London.

Maj. Charles A. Merrill, Commanding Officer, Regimental Headquarters, 11th Marines, has shifted to duty as Regimental S-3. He has been relieved by Capt. J. R. Guest, Jr., recently returned from a tour with the 12th Marine Regiment on Okinawa.

RAdm. Schanze Honored

RAdm. Edwin S. Schanze, USN-Ret., Associate Executive Director of The New York Academy of Sciences, was made an Honorary Member of The American Order of the Association Nationale des Croix de Guerre de France 29 January at a reception given in his honor at The New York Academy of Sciences' building.

Retired Marine Gets AF Liaison Post

Lt. Col. Robert V. Burns, USMC-Ret., has been appointed Manager of the Dayton, Ohio, office of The Martin Company, it is announced today by Jess W. Sweetser, Martin Vice President. He had been Corporate Manager of Field Service Requirements for the company.



Col. Burns

Colonel Burns will be responsible for the coordination of company efforts on current and future projects with the Air Force headquarters in the Talbott Building, 131 N. Ludlow St., Dayton.

Current Martin programs in design, development, or production for the Air Force include the TM-61 MATADOR and TM-76 MACE surface-to-surface

guided missiles, the TITAN intercontinental ballistic missile and the DYNASOAR hypersonic speed, circumglobal airplane.

Colonel Burns is married to the former Mabel G. Carter of Silver Spring, Md. They have three children, Mrs. Sandra H. Heth, Robert D. Burns, and Richard M. Burns.

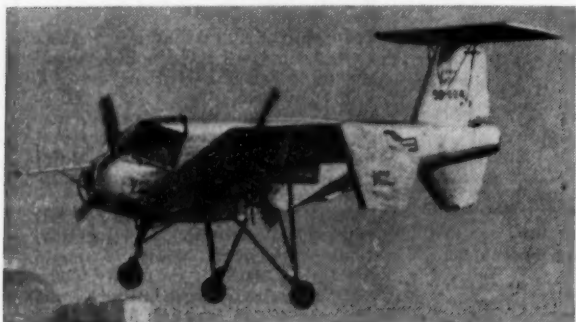
WAC MAJOR GRANT REVIEWS THE WAVES

Maj. Patricia Grant, WAC, Secretary of the Ordnance School at Aberdeen, Md., recently was the reviewing officer for the nearby Bainbridge Naval Training Center's WAVE "Boot Camp" graduation.

Major Grant inspected the WAVE Honor Guard, presented the awards and delivered the graduation speech.

INDUSTRY IN DEFENSE

Ryan Army Vertiplane, Ordered By Navy, Scores In Test With AF Project Pilot



★ ★ ★
... Up and Down
And Hovers Too ...
★ ★ ★

THE Ryan Vertiplane, which utilizes the deflected slipstream principle to accomplish vertical take-off and landing, has successfully completed first conventional flight tests at Moffett Field, Calif.

Officials of the Ryan Aeronautical Company, San Diego, noted that the Vertiplane is being developed for the Army under a contract from the Office of Naval Research.

Peter Girard, Chief Engineering Test Pilot, who was at the controls of the Ryan X-13 Air Force Vertijet, the world's first pure jet VTOL to make full transition flights (in 1957), has been making conventional flights in the Vertiplane at altitudes up to 5,000 feet. The research plane, which uses larger propellers and double, retractable wing flaps extending far below and to the rear of the wing trailing edge, was first tested by the entire plane being placed in the National Aeronautics and Space Administration's Armed Laboratory at Moffett Field for three months of tests late in 1958.

The Vertiplane is designed to have

the performance capability of a helicopter but with greater forward speed in conventional flight than a helicopter. It is adaptable to Army liaison, passenger and light cargo transportation duties.

A Lycoming T-53 gas-turbine 825 h.p. engine drives two pylon-mounted, three-bladed propellers. When the flaps are fully down, and the engine delivering full power, the flaps bend or deflect the propeller slipstream downward, to provide vertical lift for take-off, hovering and landing.

Once in the air, the Vertiplane retracts its flaps as the plane picks up speed and operates in horizontal attitude.

In addition to its possible uses by the Army, the Vertiplane's design gives it a good potential for Navy anti-submarine warfare applications and for commercial use as an executive plane and as a feeder-line transport.

The aircraft is designed purely for research purposes. It is 27 feet long, 8 feet high and has a wing span of 23 feet. Gross weight is about 2,600 pounds.

Roy Hurley Named To Ordnance Council

Roy T. Hurley, Chairman and President of the Curtiss-Wright Corporation, Wood-Ridge, N. J., has been appointed Member-at-Large to the Council of the American Ordnance Association for a one year term.

Selected from some 42,000 members, the Council members-at-large are part of the main elective body of the Association and indirectly control and manage its activities. Among these activities are 80 Technical Divisions, 55 Posts and Chapters, and the four major publications of the Association.

Lockheed Adds "Space"; Aerojet Fills Polaris Slot

Because of the increasing emphasis on space projects, Lockheed Missiles Systems division has formally changed its name to Lockheed Missiles and Space Division, L. Eugene Root, Lockheed Vice President and General Manager of the Division, said.

The change "is a timely recognition of the permanent importance of space activity to our division's operations." He said that last year the Lockheed Missiles and Space division, prime contractor and systems manager for the ARPA Discoverer satellite, and missile systems manager for the Navy's Polaris ballistic missile, "gained a third of its sales through efforts that are best described as space projects."

Ernest Leist, a Navy and Air Force veteran, has been named to head field activities on the Lockheed Polaris fleet ballistic missile at Cape Canaveral, Fla., Missile Test Center for the Aerojet General Corporation, whose Solid Rocket Plant in Sacramento, Calif., developed and produced the powerful solid-fueled rocket propulsion system for the missile.

Army-Navy And Bell Seek New Copter System

The Bell Helicopter Corporation, Fort Worth, has awarded The W. L. Maxson Corporation of New York City a contract for development of a helicopter landing system.

Known as the HELP (Helicopter Electronic Landing Path) system, it is for use in take-off and landing of helicopters during zero visibility conditions.

The \$288,000 contract covers the design, development and fabrication of airborne and ground equipment. The HELP system is part of the over-all MW-RAILS (Micro-Wave Remote Area Instrument Landing System) being developed by Bell for the Army Signal Corps and Office of Naval Research.

U. K. THOR BILLET

W. T. (Bill) Gahan has been named Engineering Director for AC Spark Plug of General Motors on the Thor project in England.

Succeeding Mr. Gahan as AC's Flight Test Director at Cape Canaveral, Fla., is Conrad E. Gigstead, formerly an assistant head of a Thor engineering systems section at AC-Milwaukee.

Douglas '58 Sales Up, But Earnings Decline

Despite record sales of \$1,209,920,000, Douglas Aircraft Company reports a decline in net earnings to \$16,847,000 for its fiscal year ending 30 November 1958. The figure for 1957 was \$30,665,000.

The 1958 earnings were \$4.41 per share, compared with the previous year's \$8.03, based on the 3,816,860 shares currently outstanding.

The Company's year-end backlog was \$1,543,736,000, Douglas reported, with \$790,878,000 in military orders and \$752,858,000 in commercial business.

ARMY ORDERS PREFAB NUCLEAR PLANT

The Army has ordered a \$3.2 million prefabricated-nuclear power plant to provide heat and power for a remote frigid location from ALCO Products, Inc.

The plant will be a modified version of the Army Package Power Reactor (APPR-1), which was designed and built by ALCO under AEC contract for the Army, and is now in operation at Ft. Belvoir, Va.

The plant, designed by ALCO as a company-sponsored project, is engineered for air movement in 20 to 30 modules or packages. The Army will accept the packages at ALCO's plant for subsequent delivery to any selected site. There, the plant can be assembled and tested in about three months. If desired, after a period of service, it can be dismantled and moved to a new location.

The new reactor plant will generate about 1,500 kw net electricity for heat and power, plus about 1,000 pounds of steam (or 1 million btu) per hour. The steam can be used for heating barracks, melting ice for water supply, or on research and development projects.

Weapons Progress In The Forces

A refurbished cargo vessel, fitted out with electronic equipment to make it a floating laboratory, sailed from Baltimore 23 Jan. to take station in the South Atlantic to aid in tracking test missiles.

The vessel, the S.S. American Mariner, has been refitted with the latest electronic and optical instruments to provide the most precise data yet collected at sea on missile flights, according to Arthur L. Malcarney, Executive Vice President, RCA Defense Electronic Products. Radio Corporation of America is the systems management contractor for the ship.

The information she collects—by radar, by telemetry, and by optical apparatus—will supplement the data already being recorded on the missile range by ground stations and picket ships operated by the Air Force. The range extends from Cape Canaveral, Fla., more than 5,000 miles southeast across the Atlantic to the vicinity of Ascension Island, half-way between Brazil and the African Coast.

The new "Missile Measurement Ship" is a project sponsored jointly by the Advanced Research Projects Agency, Department of Defense, and the Army Ordnance Missile Command, Huntsville, Ala.

The Navy provided precision computing equipment to compensate for the ship's roll, thus making possible accurate radar measurements at sea. The Air Force, in turn, will contribute valuable information on missile firings from its Missile Test Center at Patrick AFB, Fla.

Redstone Unit Ready

"B" Battery of the Army's 209th Artillery Group have successfully completed the firing phase of their training by launching their Redstone weapon under tactical conditions at White Sands Missile Range, N. Mex.

The first tactical firings of the missile by troops were by the 40th Field Artillery Group at Cape Canaveral, Fla., and White Sands Missile Range in the spring of 1958. The three tactical firings of the Redstone missile have all been successful. Two were by the 40th FA Group and the third by the 209th on 19 January.

The 209th is commanded by Col. Howard E. Von Kaenel. Headquarters and Headquarters Battery is commanded by Capt. Carl Reno; "B" Battery by Capt. Charles C. Cunningham; Capt. David P. MacNamara commands the 89th Ordnance Company and Capt. Earl P. Fidler commands the 76th Engineers.

Millions For Atlas

Firm contracts of \$110 million for the guidance system that put the Air Force Atlas into orbit and which was also used in other recent successful test firings of this ICBM, have been awarded the Defense Systems Department of General Electric Company, Syracuse, N. Y. The contracts, announced by Maj. Gen. Ben I. Funk, Commander of Air Materiel Command's Ballistic Missiles Center, Inglewood, Calif., confirm earlier letter contracts which authorized General Electric to commence work on the urgently needed guidance systems.

The three contracts, for additional research and development, as well as production of radio command guidance systems, supplement an initial contract for Atlas guidance systems in the amount of \$83 million, awarded in February 1957. Total contractual agreements with General Electric under this program are now \$193 million.

Training For Turks

The first missile classes of the Army and Navy of Turkey were graduated last week from the Army Ordnance Guided Missile School at Redstone Arsenal, Ala. Assistant Secretary of the Army Frank H. Higgins spoke and Col. Mueyyet Erdinc, Technical Attache of the Turkish Embassy, presented diplomas to the 34 graduates. Turkey is the ninth allied nation whose pioneer missile students have been trained in the Nike-Ajax and Nike-Hercules anti-aircraft missiles at the Army's "Space Academy" during the past two years.

First UDC System

The first avionics system developed under the new Uniform Design Criteria (UDC) program has been delivered by the radio division of Bendix Aviation Corporation to the Wright Air Development Center, Ohio. The system, which consists of a partially transistorized receiver-transmitter unit weighing 10 pounds, is designed to switch automatically from the primary power supply to battery operation in an emergency.

Bendix Radio will supply modules of the emergency communications system for installation in the Convair B-58 Hustler and other supersonic aircraft.

Report on Eagle

The new long-range air-to-air guided missile, the Eagle, revealed last month when the Navy Department selected the Bendix Aviation-Grumman Aircraft proposal as the winning design for the missile system in a 16-company competition, according to officials at Grumman, "will equip the Navy with a new generation of air-to-air missile capabilities." Grumman Missile Development Director Oscar Erlandsen said, "Eagle is designed to destroy any enemy aircraft or aerodynamic guided missile now in being, or expected in the foreseeable future. It will be able to attack enemy targets at all operating altitudes—at greatly increased ranges—under all tactical conditions. It will represent a major advance in improving outer-perimeter task force defense against enemy air attack."

The new missile system, which will be employed in naval fleet defense, will include an airborne radar, a digital computer and new highly-classified guidance devices.

New Early Warning Radar

The Hazeltine Electronics Division of Hazeltine Corporation, Little Neck, N. Y., has received contracts from the Air Materiel Command for a new Airborne Early Warning radar system, W. A. MacDonald, Hazeltine Chairman, said.

AN/APS-95 is an outgrowth of the Hazeltine-developed AN/APS-70, and will be the successor to the AN/APS-20 system which the company also manufactured in large quantities.

SAGE Gains Strength

A vital part of SAGE (Semi Automatic Ground Environment), new high-powered, air-search radars will be installed at critical points in the main Air Force system for air defense of the United States. The first of four huge, concrete towers containing the radar equipment is rising at Thomasville Aircraft and Warning Station in Alabama. Other sites for installation of the newly designed ra-

dar equipment have been selected for the Air Force.

Sperry Gyroscope Company has been named system manager of the program to design, develop, manufacture, install and test this radar equipment (AN/FPS-25) under technical guidance of the Rome, N. Y., Air Development Center.

Fuel Flows Quickly

Liquid fuel supplies will get to military equipment in the field faster with the assistance of a new pipe transporter developed by the Army Engineer Research and Development Laboratories, Ft. Belvoir, Va.

Designed to speed the stringing of pipe, the transporter consists of a standard 2½-ton Ordnance tractor with 6-ton trailer. A hydraulic boom is mounted behind the tractor cab for use in unloading the pipe from the trailer. The trailer is fitted with a bin for carrying grooved type couplings, complete with gaskets, nuts and bolts.

The new transporter will replace a truck-drawn 1½-ton trailer from which pipe is unloaded manually.

Big Haul In Pacific

MATS launched a new era in strategic air logistics in the Pacific when the first four-engine Douglas C-133A reached Japan 24 January after a flight from Travis AFB, Calif., with stops at Hickam AFB, T. H., and Wake Island. Following the survey flight, the 1501st Air Transport Wing at Travis will put the C-133A into regular cargo service throughout the Pacific Area.

In a recent operation, a similar C-133A carried 117,900 pounds of cargo at an altitude of 10,000 feet, the heaviest load air-hauled in the history of aviation. This 58-ton payload was almost three times the former world record established by a Soviet TU-104 in 1957.

Maj. William R. Stanton, Operations Officer for the 84th Air Transport Squadron at Travis, was Aircraft Commander for the Pacific flight. He has more than 12,000 flying hours. Other crew members were Maj. John E. Matthews, Jr., Maj. James E. Myers, Capt. Frederick N. Barker, Capt. James A. Faircloth, Lt. Charles H. Greenley, M/Sgt. James M. Rae, M/Sgt. Anselmo S. Dominguez, Jr., S/Sgt. William B. Oakes, T/Sgt. Harold T. Grady, S/Sgt. Richard J. Albersson, and S/Sgt. William A. Bartfield.

CofS White Reports

From page 20—

stitutes a highly versatile and combat-ready force for general and limited war.

These units of the Composite Air Strike Force form a special task force, ready for immediate deployment to any area of the world where a show of force, or an application of force, or general war augmentation is required. Any or all units of this special task force could be deployed. It can be tailored in size to meet any particular situation.

The Composite Air Strike Force has been exercised several times during the past two years, and portions of this strike force were deployed to the Lebanon area and to Taiwan this past summer.

When the Lebanon situation developed, within less than 24 hours after receiving orders, units of the Composite Air Strike Force, complete with their own support, had departed the United States for the Middle East.

By keeping the Composite Air Strike Force in the United States, it is available to support our unified commanders throughout the world.

In summary, tactical forces will permit us to respond to national policy and meet critical security needs and possible international situations. Mobility and versatility are the characteristics of these forces. With careful modernization and advanced operational techniques, their capability will improve. These tactical forces, together with units of the Army and Navy, play an essential role in meeting threatened conflicts in remote areas.

(Next week's issue of THE JOURNAL will publish additional highlights from General White's report to the Senate Committee.)

STAR-STUDDED MISSILE GROUP. Five General Officers of Air Materiel Command at a recent "Black Friday" monthly management meeting at Ballistic Missiles Center in Inglewood, Calif. Left to right: Major Generals Ben I. Funk (Commander, Ballistic Missiles Center), John Mills (Commander, San Bernardino AMA, Norton AFB, Calif.), William T. Hudnell (Director Maintenance Engineering, Hq AMC, Wright-Patterson AFB, Ohio) and Pearl Robey (Commander Ogden AMA, Hill AFB, Utah), with Brig. Gen. Don Coupland (Director of Logistic Support at San Bernardino AMA). All are directly concerned with logistic support functions of the Air Force ballistic missile program.

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...NEWS IS HAPPENING AT NORTHROP



FIRST LOW-COST SPACE AGE AIRCRAFT DEMONSTRATES NORAIR SYSTEMS MANAGEMENT CAPABILITY

The twin-jet T-38—America's first supersonic trainer—aptly demonstrates Norair's capability in systems management. Now in production under USAF contract, the T-38 Talon is the first member of a Northrop-conceived family of lightweight, low-cost space age aircraft.

Soon to follow: a supersonic counterair fighter, the N-156F—first weapon system designed in America for the specific tactical and economic requirements of those free allied nations most vulnerable to enemy attack.

Other important systems management achievements include the USAF Snark SM-62A and the F-89 Scorpion. Norair management of the Snark program produced the free world's

first operational intercontinental guided missile—delivered on time and at minimum cost.

In producing America's first nuclear-armed interceptor, Norair's weapon system management of the F-89 was marked by on-time delivery of more than 1,000 units throughout the program's life, and by a significant dollar underrun. A full ten years after its first flight, the Scorpion is still the USAF's most heavily armed interceptor—and a uniquely stable platform for air-launch of atomic rockets.

Norair's cost-proved record of effective management, integrated facilities, and available resources combine to demonstrate outstanding capability as a prime systems contractor.

NORAIR formerly Northrop Division
HAWTHORNE, CALIFORNIA
A DIVISION OF NORTHROP CORPORATION



Plans Are Scaled For Musical Unification In The U.S. Fighting Forces

From first page—

dents may be taught by any of the school's Navy or Marine Corps faculty and, conversely, many of the sea-going students are taught by Army personnel.

Of the instructors at the school, 57 are Navy, 15 Army and 1 Marine.

Army element of the school is under jurisdiction of Capt. William A. Mobley, USA, a commissioned bandmaster.

Service Needs Differ

Despite the school's three-Service student body and the many courses held jointly for all students, each Service

maintains its own curriculum for its bandmen and band leaders.

The Navy, equipped primarily with 12- to 17-piece sea-going musical organizations, lays heavy emphasis on dance and entertainment music. Martial music is the main emphasis for Army bandmen, who usually work in larger 28- to 45-piece units.

Concentration on small bands has also led the Navy to use enlisted petty officers to lead most bands, instead of following the Army and Air Force pattern of placing a warrant or commissioned officer at the head of each band.

Most elaborate training at the school is given to Navy personnel, who receive six months of instruction in all phases of music immediately after they complete basic training. A second year-long course trains petty officers and prospective warrant officers for band leader and bandmaster positions.

Prospective Army warrant officers receive an intensive six-month advanced course at the school, while all new Regular Army bandmen are given 20 weeks' training.

Musicians drafted into the Army are not now usually sent to the school, but

receive their initial band training in one of six band training units in the United States, or on the job training with an operational band.

No Room For Expansion

The physical plant of the Naval Music School is a three-story temporary building, crowded with practice and study rooms, rehearsal halls, recording studios, an extensive band library, an instrument repair shop and offices.

There is no room for further expansion of the student body, according to school officials.

The extent of the school's operation is illustrated by the fact that its musical instrument inventory alone is valued at over \$500,000. Its band library collection of over 10,000 selections is said to be one of the largest in the world.

The high quality of instruction given at the Naval School of Music is attested

E101's are at work in aviation, petroleum, civil engineering, chemical, optical, pharmaceutical and other fields of science and industry. Engineers, statisticians, designers and researchers are saving costly time in handling their computational problems... from original design calculations, to the final test data reduction.



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USAF BAND TOURS

The U. S. Air Force Band, directed by Col. George S. Howard, USAF Chief of Bands and Music, left 29 January on its ninth international goodwill trip—a three-week concert tour of South America.

The group previously has played on the continents of Europe, Asia, Africa, and North America.

The South American tour includes performances in Brazil, Paraguay, Uruguay, Chile, Bolivia, Peru, Ecuador, Colombia, Venezuela, and Panama.

to not only by the excellence of the students which it produces, but also by the high regard in which it is held by leading civilian musicians and educators.

Each year, between 500 and 600 music educators from all parts of the U. S. converge on the school to learn the latest developments in instrumental teaching and to receive copies of the school's research findings in the field of band instruments and music.



... Lt. McMillan Heads School

Music School Roster

Navy officers assigned to the Naval School of Music in Washington, D. C. are: Lt. Oden L. McMillan, Officer in Charge; Lt. Maurice E. Ford, Assistant Officer in Charge; Chief Bandmaster Eugene H. Albert, Materiel Officer; Bandmaster George W. Marinak, Head of Student Training Department; and Bandmaster Donald W. Stauffer, Head of Academic Training.

Officers of the Army element are: Capt. William A. Mobley, Commanding Officer; CWO Albin I. Johnson, Training Officer for Bandmaster Students; and CWO Charles W. Woodman, Training Officer for Basic Students.